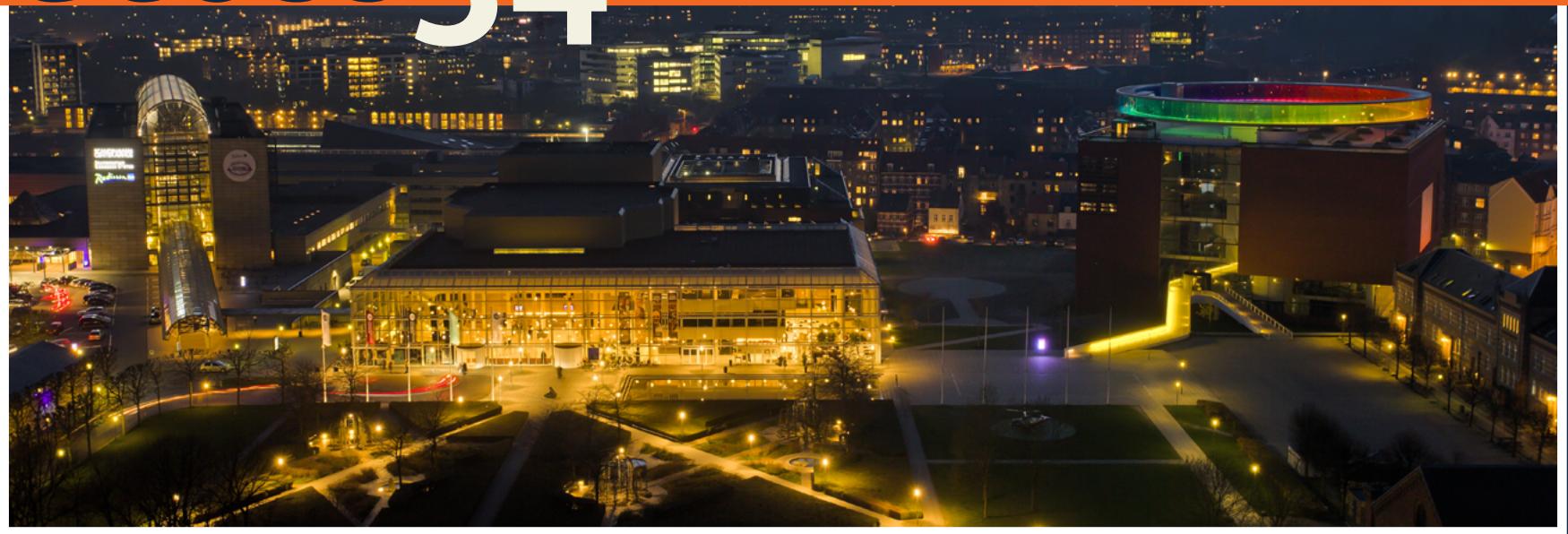


European Conference On Surface Science

ecoss34

26th to 31st August, Aarhus, Denmark



Final Programme

As of 26th August 2018

www.ecoss2018.org



CARLSBERG FOUNDATION



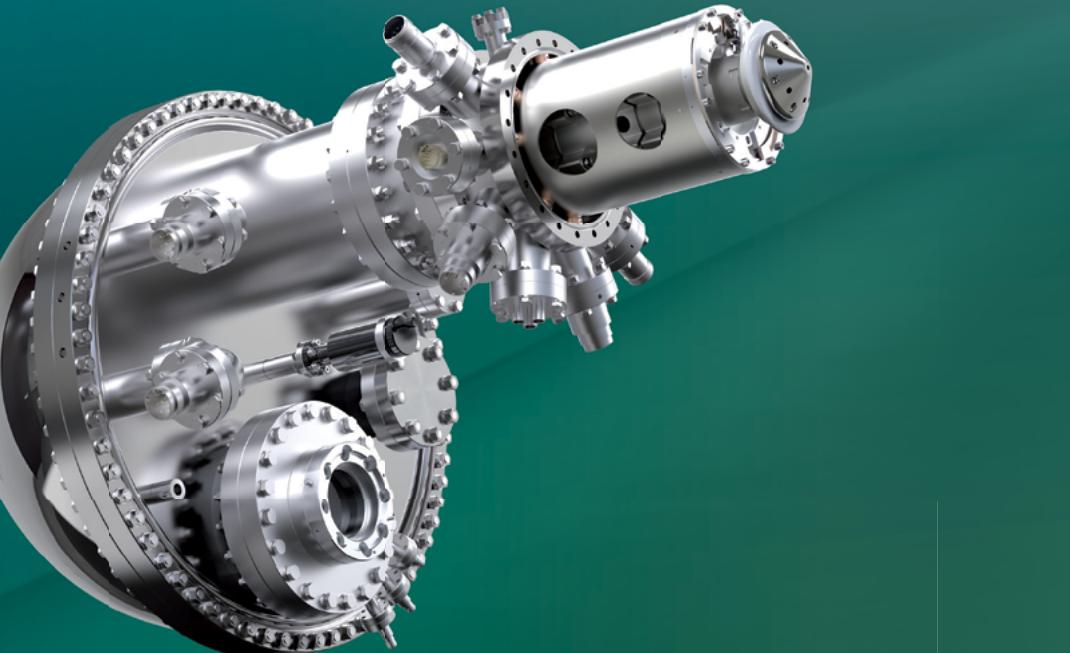
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TABLE OF CONTENTS

Welcome/Organisation	4
Information about the ECOSS conference series	4
Partners/Sponsors	5
Local Organising Committee	5
Scientific Committees	
International Advisory Committee	6
Programme Committee	6
General Information	
Instructions for Authors	7
Conference Venue	8
Opening Hours	8
Disclaimer	8
Congress Centre Map	9
Social Programme	10
Satellite Meetings.....	11
Prizes	
EPS Invited Speaker Grant	12
EPS Poster Prize	12
EPS Student Travel Grant	13
Carlsberg Foundation Student Travel Grant	13
ECOSS Prize Candidates	14
Session Topics and Abstract Codes	16

Overview of invited talks	
Plenary Talks	17
Invited Talks	18
Programme Overview	20
Detailed Programme	
Sunday	22
Monday	24
Tuesday	30
Wednesday	36
Thursday	42
Friday	48
Satellite Meeting Programmes	
Molecular Reaction on Surfaces	50
Villum Centre of Excellence for Dirac Materials	52
Posters	54
Author Index	66
Exhibition	
Exhibition Plan	82
List of Exhibitors	83
Exhibitor Information	85

WELCOME

On behalf of the Organisers we welcome you to the 34th European Conference on Surface Science, ECOSS34, in Denmark, Aarhus.

ECOSS is a traditional annual meeting directed jointly by the Surface Science Division of the International Union for Vacuum Science, Technique and Applications (IUVSTA) and the Surface and Interface Section of the European Physical Society (EPS). The conference provides an excellent opportunity for scientists from Europe, and from all over the world, to meet and discuss the latest advances in surface physics and chemistry and the progress of the surface science approach in the related innovation fields of heterogeneous catalysis, organic molecular nano-architectures, two-dimensional materials and graphene, nanoelectronics, bio-nanoscience and functional/energy materials.

The meeting will take place in Aarhus, a university city, dating back to an 8th century Viking settlement. It is the second largest city in Denmark and was the European Cultural Capital in 2017. The conference venue is located in the city-centre, close to hotels, restaurants, cafés, museums, and shopping. Situated in a bay, fringed by beaches, forests and lush scenery, Aarhus offers an inspiring setting for the conference.

Information about the ECOSS conference series

ECOSS is organised jointly by the Surface Science Division of IUVSTA (the International Union for Vacuum Science, Techniques and Applications, www.iuvsta.org) and the Surface and Interface Section of the European Physical Society (EPS, www.eps.org). The conference does not run in years when the triennial IUVSTA Vacuum Congress is held in Europe.

1978 Amsterdam (NL)	1988 Bologna (IT)	2000 Madrid (ES)	2011 Wroclaw (PL)
1979 Cambridge (UK)	1990 Salamanca (ES)	2001 Krakow (PL)	2012 Edinburgh (UK)
1980 Cannes (FR)	1991 Stockholm (SW)	2002 Malmö (SW)	2014 Istanbul (TR)
1981 Münster (DE)	1993 Warwick (UK)	2003 Prague (CZ)	2015 Barcelona (ES)
1982 Gent (BE)	1994 Leipzig (DE)	2005 Berlin (DE)	2016 Grenoble (FR)
1984 York (UK)	1995 Lille (FR)	2006 Paris (FR)	2017 Szeged (HU)
1985 Aix-en-Provence (FR)	1996 Genova (IT)	2008 Liverpool (UK)	
1986 Jülich (DE)	1997 Enschede (NL)	2009 Parma (IT)	
1987 Luzern (CH)	1999 Vienna (AT)	2010 Groningen (NL)	



ORGANISATION

Conference Chair

Liv Hornekær
*Department of Physics & Astronomy
Aarhus University*

Conference Organisers

KongresKompagniet
*Dokk1, Hack Kampmanns Plads 2
DK - 8000 Aarhus C*

Local Organising Committee, Aarhus University

Richard Balog, *Department of Physics & Astronomy*
Andrew Cassidy, *Department of Physics & Astronomy*
Kim Daasbjerg, *Department of Chemistry*

Mingdong Dong, *Interdisciplinary Nanoscience Center*

Philip Hofmann, *Department of Physics & Astronomy*

Bjørk Hammer, *Department of Physics & Astronomy*

Jeppe V. Lauritsen, *Interdisciplinary Nanoscience Centre*

Trolle R. Linderoth, *Interdisciplinary Nanoscience Centre*

Jill Miwa, *Department of Physics & Astronomy*

Steen U. Pedersen, *Department of Chemistry*

John Thrower, *Department of Physics & Astronomy*

Stefan Wendt, *Interdisciplinary Nanoscience Center*

Søren Ulstrup, *Department of Physics & Astronomy*

Organising Institution



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Silver Sponsors



Conference Secretaries

Mette Alstrup Lie, *Department of Physics & Astronomy*
Karin Vittrup, *Department of Physics & Astronomy*

Website and information management

Nykola Jones, *Department of Physics & Astronomy*



SCIENTIFIC COMMITTEES

International Advisory Committee

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 Rasmista Raval, University of Liverpool, UK
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 Petra Tegeder, University of Heidelberg, DE
 Alec Wodtke, Max Planck Institute of Biophysical Chemistry, DE
 Martin Wolf, Fritz Haber Institute, DE
 Qikun Xue, Tsinghua University, CN

INSTRUCTIONS FOR AUTHORS

Programme Committee

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 Lars Diekhöner, Aalborg University, DK
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 Oliver Rader, Helmholtz Centrum Berlin, DE
 Eva Raals, Universitetet i Stavanger, NO
 Justin Wells, Norwegian University of Science and Technology, NO

Oral presentation guidelines

Powerpoint projection will be available in the session rooms which are equipped with a computer, a projector, a microphone and a pointer. All the hardware elements will be provided by the organisers to ensure consistency in technical quality and allow for quick and smooth transition between the speakers.

Speakers are asked to upload their talk in the room where it will be presented, at the latest in the break preceding the session in which the talk will be given. There will be technical assistance in the rooms before each session.

Plenary Talk: 50 min + 10 min discussion

Invited Talk: 35 min + 5 min discussion

Contributed Talk: 17 min + 3 min discussion

The Chairpersons of the sessions will be strict on timing.

Instructions for presentation

Supported presentation types:

- MS Office • Adobe PDF

If a presentation contains special characters or needs other fonts, they have to be provided by the speaker. If not embedded, the video files attached to the presentation should be located in the same folder as the presentation files.

The following mass storage devices are accepted:

- USB stick • external HDD

We strongly recommend that you save your presentation on two different devices.

Presentation privacy

At the end of the conference, ALL presentations and associated files will be deleted.

Poster presentation guidelines

General information

The poster exhibition will be held on the balcony floor over the exhibition area and main "Kongres Sal".

There will be two poster sessions:

Monday 27th August: 18:30-20:00

Tuesday 28th August: 18:30-20:00

covering all topics for the conference.

All posters will remain on display for the duration of these two sessions. Presenters of posters with an even number in their ID should be available at their posters on the Monday evening session and odd numbered posters on Tuesday.

Putting up posters

Your poster board will be marked with the same ID as listed in the programme book (for example – CAT-P-1) and which was sent with your acceptance notification via email. The layout of the poster boards is shown on page 53 and you can find the board number for each poster in the list of posters starting on page 54.

Presenting authors should ensure that their poster is affixed to the corresponding numbered board by the start of the first poster session on Monday the 27th. All posters should be removed by lunch time on Thursday the 30th at the latest.

Poster format

A0 portrait 841 mm wide x 1189 mm high. Suitable pins/adhesive will be provided by the organisers.

GENERAL INFORMATION

Conference venue

The **Scandinavian Congress Centre** is a modern convention centre centrally located in Aarhus with the Concert Hall, City Hall and the ARoS museum of modern art as nearest neighbours. The congress centre is associated with the conference hotel, the Radisson Blu Scandinavia Hotel Aarhus, a 4-star hotel with 234 rooms.

Address: Margrethepladsen 2, 8000 Aarhus C

Opening hours

Registration/Information desk

at *iNANO, Aarhus University, Gustav Wieds Vej 14, 8000 Aarhus C*

Sunday 26th August 16:00 – 19:00

at *Scandinavian Congress Centre, Margrethepladsen 2, 8000 Aarhus C*

Monday 27th August 08:00 – 19:00

Tuesday 28th August 08:30 – 16:30

Wednesday 29th August 08:30 – 16:30

Thursday 30th August 08:30 – 16:30

Friday 31st August 08:30 – 12:30

Official language

The official language of the conference is English.

Wi-Fi access

Participants at the conference can use the open Wi-Fi network "Radisson_Guest". There is no password, but upon selection you will be asked to agree to the conditions of usage before your device will connect.

Badges

All delegates, exhibitors and visitors must wear their name badges at all time to ensure admittance to the areas of the Congress Centre.

Publication

There will be no publication of a complete set of proceedings. All abstracts will be available for viewing and download from the ECOSS34 conference website.

Disclaimer

The programme is preliminary. The organisers reserve the right to alter the programme if and as deemed necessary.

The ECOSS34 organisation and/or its agents have the right for any reason beyond their control to alter or to cancel, without prior notice, the Conference or any of the arrangements, timetables, plans or other items relating directly or indirectly to the Conference.

The ECOSS34 organisation and/or its agents shall not be liable for any loss, damage, expenditure or inconvenience caused as a result of such alteration or cancellation.



CONGRESS CENTRE MAP



SOCIAL PROGRAMME

Welcome reception and registration

16:00-19:00 Sunday 26th August

iNano building at Aarhus University

Gustav Wieds Vej 14, 8000 Aarhus C.

Registration with drinks and snacks in the foyer of the iNano building (1590), with tours of the local laboratories in iNano, and the Physics and Chemistry departments.

A map of the location can be found on page 23 Further details of how to get to iNano can be found on the website.

Conference dinner

18:00 Wednesday 29th August

The Old Town (Den Gamle By)

The Old Town, the world's first open-air museum of urban history and culture, was founded in 1909. 75 historical houses from all over Denmark shape the contours of a Danish town as it might have looked in Hans Christian Andersen's days, with streets, shops, yards, homes and workshops.

From 18:00 to 20:00 you can explore 'Den Gamle By' at your own pace. A welcome drink and snacks will be served at the Square ("Torvet"). Visit the historical shops and houses such as the bookshop, the ironmonger and the bakery. Don't forget to drop by the historical brewery and have a sample of their fantastic beer.

At 20:00 the Conference dinner will be served at the musuem.

Remember to bring your ticket and name badge.

A map of the location can be found on page 41.

SATELLITE MEETINGS

Molecular Reaction on Surfaces (MRS)

Monday 27th & Tuesday 28th August

Molecular reaction on surfaces is an emerging research field with great potential for bottom-up fabrication of atomically precise low-dimensional surface nanostructures. This burgeoning research field relates to chemistry, physics, and material science, which is gradually getting more and more attention. The aim of this meeting is to bring together scientists working in the fields of chemistry, physics and theory, as well as with application-oriented viewpoints.

Invited speakers:

S.-X. Du (CAS), M. Enache (Groningen), R. Fasel (EMPA), M. Gottfried (Marburg), F. Klappenberger (Munich), Y. Jiang (PKU), N. Lin (HKUST), M. Maier (ScientaOmicron), P. McBreen (Laval), J.I. Pascual (CIC NanoGUNE), M. Pisarra (Madrid), S. Stoltz (EMPA), D. Wang (CAS), T. Wang (USTC), Y. Wang (CAS), Y.-F. Wang (PKU), K. Wu (PKU), W. Xu (TJU), M. Yu (HIT), D.-Y. Zhong (SYSU), J.-F. Zhu (USTC)

Organisers:

Lifeng Chi, Wei Xu, Mingdong Dong

The programme for the meeting can be found on page 50

Villum Centre of Excellence for Dirac Materials (CDM)

Thursday 30th August

The VILLUM Centre of Excellence for Dirac Materials (<http://villumcdm.org/>) was set up in 2016 in order to explore a new class of materials characterized by a Dirac-like excitation spectrum. Research covers both experimental and theoretical activities with centre nodes in Aarhus, Stockholm and Nijmegen. This satellite meeting consists of presentations from centre members on the current activities, as well as invited presentations covering topics close to the centre's activities.

Invited speakers:

Alexander Balatsky (Nordita), Martin Bremholm (Aarhus University), Alfredo Davide Ferella (Stockholm University) Jinfeng Jia (Jiao Tong University), Jill Miwa (Aarhus University), Charlotte Sanders (Aarhus University), Kristian Sommer Thygesen (Technical University of Denmark), Søren Ulstrup (Aarhus University)

Organisers:

Philip Hofmann

The programme for the meeting can be found on page 52

PRIZES

EPS Invited Speaker Grant

This grant of 500 EUR, sponsored by the European Physical Society, was awarded to the following invited speaker by the ECOSS prize committee.

Lifeng Chi
Soochow University, China
MOL-IT-THU-34 On-Surface Precise Chemistry



EPS Poster Prize

All PhD students displaying posters at the conference and who indicated that their poster should be considered, were entered into the EPS poster prize competition. Candidates must have been eligible for registration as a student and have chosen one of the student registration options when registering to attend the conference. The prize of 200 EUR, sponsored by the EPS, will be given to the author of the best poster. The evaluation criteria are: scientific content, presenter's knowledge and enthusiasm for their topic and poster aesthetics. The prize will be awarded by the ECOSS34 prize committee and given to the winner at the closing ceremony on Friday 31st August. The winner must be in attendance at the closing ceremony.



EPS Student Travel Grant

The student travel grant, sponsored by the European Physical Society, was awarded to three young researchers working at European Universities, or able to demonstrate economic need. To be eligible, the researchers must have received their PhD not more than 6 years prior to the application deadline and be making an oral presentation at ECOSS34.

Each award consists of 350 EUR cash with the student registration fee being waived, or regular registration being reduced by 50%. The selection by the ECOSS prize committee was based on the applicants' CVs and submitted abstracts, primarily on the basis of scientific merit.

Ilaria Carlomagno

Roma Tre University, Italy

OXI-CT-MON-14 The role of interface effects on the magnetic response of MgO/Co/MgO trilayers

Chun-Ren Ke

The University of Manchester, United Kingdom

ENM-CT-MON-9 *In situ* investigation of degradation at organometal halide perovskite surfaces using near-ambient pressure X-ray photoelectron spectroscopy

Florian Lackner

Graz University of Technology, Austria

NPS-CT-THU-3 Functional plasmonic nanostructures obtained from helium droplet synthesis



Carlsberg Foundation Student Travel Grant

The Carlsberg Foundation sponsored student travel grant consists of 4 awards of 500 EUR. In order to be eligible, applicants must be a PhD student at the time of the conference and have submitted an abstract. The selection by the ECOSS prize committee was based on the applicants' CVs and submitted abstracts, primarily on the basis of scientific merit.

Peiyu Chen

University of Oxford, United Kingdom

2DM-CT-WED-35 Epitaxial growth of monolayer MoS₂ on SrTiO₃ single crystal substrates

Marcos del Cueto

Autonomous University of Madrid, Spain

SCR-CT-THU-25 Surface analysis with molecular techniques: fast molecular diffraction from KCl(001) at grazing incidence conditions

Khushboo Yadav

Indian Institute of Technology Kanpur, India

MOL-CT-THU-33 Switching and electronic properties of switchable azobenzene derivatives on HOPG

Jianfeng Zhou

Lund University, Sweden

CAT-CT-THU-28 New insights from studies of Pd single crystals during CO oxidation in a stagnation flow

CARLSBERG FOUNDATION



PRIZES

ECOSS Prize Candidates

The ECOSS prize, sponsored by SPECS, consists of 1500 EUR and will be awarded to the best oral presentation by a PhD student or young postdoc. In order to be eligible, the candidate must have been awarded their PhD not more than 1 year prior to the conference start date, be making an oral presentation and have submitted an application to be considered. The winner will receive the prize during the closing ceremony on the 31st of August and must be in attendance personally.



Applicants

Kelvin Anggara

University of Toronto, Canada

SCR-CT-MON-11 Surface-aligned reactions at selected impact parameters

Luca Basta

Scuola Normale Superiore, Pisa, Italy

SCR-CT-MON-17 A novel sensitive calorimetric technique to study energy (heat) exchange at the nano-scale

Peiyu Chen

University of Oxford, United Kingdom

2DM-CT-WED-35 Epitaxial Growth of Monolayer MoS₂ on SrTiO₃ Single Crystal Substrates

Rodrigo Mateo Ortiz de la Morena

Saint Andrews University, United Kingdom

MOL-CT-TUE-1 Self-Assembled monolayers of non-planar aromatic carboxylic acids on Ag

Marcos del Cueto

Autonomous University of Madrid, Spain

SCR-CT-THU-25 Surface Analysis with Molecular Techniques: fast molecular diffraction from KCl(001) at grazing incidence conditions

Jan Gerrit Horstmann

University of Göttingen, Germany

UES-CT-MON-8 Tracing structural phase transitions and phase ordering at surfaces with ultrafast LEED

Chun-Ren Ke

The University of Manchester, United Kingdom

ENM-CT-MON-9 *In situ* investigation of degradation at organometal halide perovskite surfaces using near-ambient pressure X-ray photoelectron spectroscopy

Julia Kosto

Charles University, Prague, Czech Republic

ELC-CT-TUE-10 Magnetron sputtered polycrystalline cerium oxide thin film as a new material for H₂O₂ detection

Peter Lackner

Vienna University of Technology, Austria

OXI-CT-TUE-27 Reducing and oxidizing a non-reducible oxide: Crystallographic and electronic structure of ZrO₂ films

Oleksandr Leiko

Charles University, Prague, Czech Republic

OXI-CT-MON-18 Redox reactions studies on SnO₂ and Pd/SnO₂ nanoparticles on TiO₂(110) surface in methanol at near-ambient pressures

Anna Mandziak

Alba synchrotron, Cerdanya del Valles, Spain

OXI-CT-TUE-26 Ultrathin antiferromagnetic mixed nickel-cobalt oxide films

Matteo Miola

Aarhus University, Denmark

ENM-CT-MON-5 Green and cheap hemin-based electrocatalyst for selective CO₂-to-CO conversion

Lars Mohrhosen

Carl von Ossietzky University of Oldenburg, Germany

OXI-CT-MON-17 Defect density dependence of partial oxidation and deoxygenation reactions of small organic compounds on rutile TiO₂ (110) surfaces

Segolene Palussiere

Université Toulouse III - Paul Sabatier, France

ENM-CT-MON-1 Influence of the CuO nanoparticles surfaces into assembly of Al/CuO nanothermites

Shuqiu Wang

University of Oxford, United Kingdom

OXI-CT-TUE-20 Defects in Monolayer Films of Ti₂O₃ on Au(111)

Kristin Werner

Fritz Haber Institute of the Max Planck Society, Germany

OXI-CT-MON-9 On Alkyne Hydrogenation Reactions on Ceria: Model Studies on CeO₂(111) Films

Khushboo Yadav

IIT Kanpur, India

MOL-CT-THU-33 Switching and electronic properties of switchable azobenzene derivatives on HOPG

Xiaojuan Yu

Karlsruhe Institute of Technology, Germany

OXI-CT-TUE-21 IRRAS and DFT Investigations of ultrathin ZnO films formed on Ag(111)

Khadisha Zahra

The University of Manchester, United Kingdom

2DM-CT-MON-13 Reaction of NH₃ annealed graphene studied by near ambient pressure XPS

SESSION TOPICS and ABSTRACT CODES

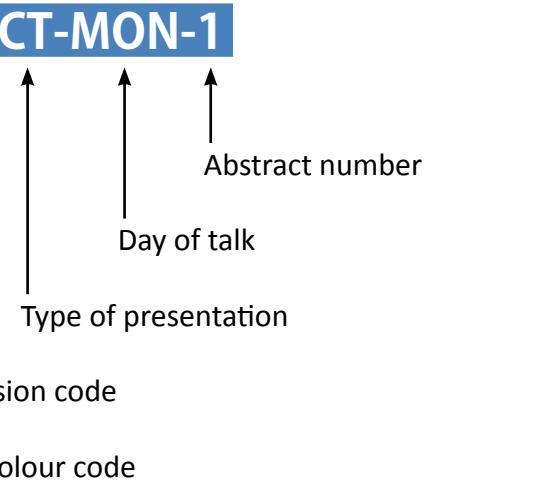
Session Topics

2DM	2D materials
CAT	Heterogeneous catalysis
COR	Corrosion and anti-corrosive coatings
ELC	Electrochemistry on surfaces
ENM	Energy materials
MOL	Organic molecules and molecular architectures on surfaces
NAM	Novel advancements in theoretical and experimental methods
NPS	Functional surface nanostructures, plasmonics and sensors
OXI	Oxide surfaces and thin films
SAC	Surface astrochemistry
SCR	Surface adsorption, desorption, diffusion and reactions
SEM	Semiconductor surfaces
SMI	Surface magnetism and interfacial superconductivity
UES	Ultrafast dynamics and electronic structure
WAT	Water on surfaces
MRS	Satellite Meeting: Molecular Reaction on Surfaces
CDM	Satellite Meeting: Villum Centre of Excellence for Dirac Materials

Types of Presentations

- PL** Plenary Talk
IT Invited Talk
CT Contributed Talk
P Poster

Presentation Code



PLENARY TALKS - KONGRES SAL

PL-1: Monday 09:00

Atomically-resolved oxide surfaces: Lessons learned, surprises encountered, challenges posed.



Ulrike Diebold

*Institute of Applied Physics,
Vienna University of Technology,
Austria*

PL-2: Tuesday 09:00

Probing surface catalysis in real time.



Anders Nilsson

*Department of Physics,
Stockholm University,
Sweden*

PL-3: Wednesday 09:00

On-surface synthesis of graphene nanoribbons:
From molecules to devices.



Roman Fasel

*EMPA, Material Science and
Technology,
Switzerland*

PL-4: Thursday 09:00

Spin excitations and interactions on
superconductors - probed and manipulated
with a scanning tunneling microscope.



Katharina Franke

*Department of Physics,
Freie Universität Berlin,
Germany*

PL-5: Friday 09:00

Quantum materials: a new direction of surface
science



Jinfeng Jia

*School of Physics and Astronomy,
Shanghai Jiao Tong University,
China*

PL-6: Friday 10:30

A molecular view of heterogeneous catalysis



Jens Nørskov

*DTU Physics,
Technical University of Denmark,
Denmark*

INVITED TALKS

CAT-IT-TUE-1 Scaling-relation-based kinetic Monte Carlo modelling of syngas reactions on stepped metals

Mie Andersen
Technische Universität München,
Germany



2DM-IT-TUE-20 Chemistry makes graphene interfaces great again: a first-principles investigation

Marie-Laure Bocquet
Ecole Normale Supérieure - CNRS,
France



SAC-IT-THU-6 Structure and reactivity of interstellar nanodust

Stefan Bromley
University of Barcelona / ICREA,
Spain



2DM-IT-MON-1 Quasiparticle interference in mono- and bilayer graphene

Carsten Busse
Universität Siegen,
Germany



MOL-IT-THU-34 On-surface precise chemistry

Lifeng Chi
Soochow University,
China



OXI-IT-TUE-19 From oxide nano-objects to nano-oxides: the central role of the metallic substrate.

Jacek Goniakowski
Institut des Nanosciences de Paris, CNRS & Sorbonne Université, France



2DM-IT-WED-39 Tungsten disulfide on graphene: structural, electronic, nanotribological properties and optoelectronic applications

Camilla Coletti
Istituto Italiano di Tecnologia,
Italy



MOL-IT-WED-19 On-surface synthesis and manipulation of functional molecules

Leonhard Grill
University of Graz,
Austria



UES-IT-MON-1 Momentum-resolved view of ultrafast dynamics of electrons, excitons and phonons in layered semiconductors

Ralph Ernstorfer
Freie Universität Berlin,
Germany



OXI-IT-WED-41 Reactions at oxide surfaces and oxide/metal interfaces

Henrik Grönbeck
Chalmers University of Technology, Sweden



UES-IT-MON-9 Ultrafast momentum-resolved carrier dynamics in 1D wires and 2D heterostructures

Isabella Gierz
Max Planck Institute for the Structure and Dynamics of Matter, Germany



NPS-IT-THU-1 Strong coupling between surface phonon-polaritons and surface plasmon-polaritons

Christian Huck
Heidelberg University,
Germany



NPS-IT-THU-6 Chemical applications of nanophotonic: probing the structure of soft matter with chiral nanostructures

Malcolm Kadodwala
School of Chemistry, University of Glasgow, United Kingdom



WAT-IT-THU-13 Ice, ice maybe?

Angelos Michaelides
UCL, United Kingdom



CAT-IT-WED-14 Designing heterogeneous alloy catalysts from first principles and surface science

Charles Sykes
Tufts University, United States



SMI-IT-WED-1 An orbitally driven single atom magnetic memory on black phosphorus

Alexander Khajetoorians
Radboud University, Netherlands



WAT-IT-TUE-1 Real-space investigation of microsolvation: Water structures in the presence of organic molecules or ions

Karina Morgenstern
Ruhr-Universität Bochum, Germany



SMI-IT-WED-4 Atomic scale imaging of stain-tuned emergent phases of matter

Peter Wahl
University of St Andrews, United Kingdom



CAT-IT-THU-29 The role of supported metal nanoclusters and ions in thermal and photoinduced catalytic reactions

János Kiss
University of Szeged, Hungary



ENM-IT-MON-10 Hybrid catalysis for efficient CO₂ reduction using molecular complex/carbon based materials

Marc Robert
Université Paris Diderot - CNRS, France



SAC-IT-THU-1 Measurements of activation energies for diffusion of hydrogen atom on pure CO solid

Naoki Watanabe
Hokkaido University, Japan



MOL-IT-THU-29 Molecular nanoarchitectures from on-surface reactions and assembly

Jennifer MacLeod
Queensland University of Technology (QUT), Australia



NAM-IT-TUE-1 Understanding materials from synthesis to electronic structure at the MAESTRO beamline

Eli Rotenberg
ALS, Lawrence Berkeley National Laboratory, United States



SCR-IT-MON-1 Growth and Surface Chemistry of Rutile IrO₂(110)

Jason Weaver
University of Florida, United States



MOL-IT-THU-24 On-surface synthesis and electronic structure of surface-supported molecular networks

Sabine Maier
Friedrich-Alexander-University Erlangen-Nürnberg, Germany



WAT-IT-TUE-6 Solid-liquid interfaces: a new surface science frontier

Miquel Salmeron
Lawrence Berkeley National Laboratory, United States



NAM-IT-WED-8 Zooming into atomic interactions with lateral force microscopy

Jay Weymouth
University of Regensburg, Germany



PROGRAMME OVERVIEW

The programme printed in this booklet was correct as of the 30th of July, but some changes may have occurred since. Please see the conference website for the most updated version.

SUNDAY 26TH AUGUST

10:00	Tutorials and Workshops (Aarhus University)						
10:00	to 16:00						
16:00	Welcome Reception and Registration (iNano, Aarhus University)						
16:00	to 19:00						

MONDAY 27TH AUGUST

08:45	Welcome						
09:00	Plenary talk 1: Ulrike Diebold						
10:00	Coffee break						
10:30	Kongres	Nortvegia	Dania	Suecia	Room 12	Room 11	
10:50	OXI 1/8	2DM 1/8	SCR 1/6	UES 1/3	ENM 1/2	MRS 1/6	
11:10	OXI 4/8	2DM 4/8		WAT 1/3	NAM 1/2	ELC	MRS 4/6
11:30							
11:50							
12:10							
12:30	Lunch						
14:00	OXI 2/8	2DM 2/8	SCR 2/6	UES 2/3	ENM 2/2	MRS 2/6	
14:20	OXI 5/8	2DM 5/8		WAT 2/3			
14:40	OXI 10/10	2DM 10/10		WAT 10/10	NAM 10/10	MOL 10/10	MRS 10/10
15:00	OXI 11/11	2DM 11/11		WAT 11/11	SEM 11/11	MOL 11/11	MRS 11/11
15:20	OXI 12/12	2DM 12/12		WAT 12/12	SEM 12/12	MOL 12/12	MRS 12/12
15:40	OXI 13/13	2DM 13/13		WAT 13/13	SEM 13/13	MOL 13/13	MRS 13/13
16:00	Coffee break						
16:30	OXI 14/14	2DM 14/14		WAT 14/14			
16:50	OXI 15/15	2DM 15/15		WAT 15/15	SEM 15/15	MOL 15/15	MRS 15/15
17:10	OXI 16/16	2DM 16/16		WAT 16/16	CAT 16/16	MOL 16/16	MRS 16/16
17:30	OXI 17/17	2DM 17/17		WAT 17/17	SEM 17/17	MOL 17/17	MRS 17/17
17:50	OXI 18/18	2DM 18/18		WAT 18/18	SEM 18/18	MOL 18/18	MRS 18/18
18:10	OXI 19/19	2DM 19/19		WAT 19/19	SEM 19/19	MOL 19/19	MRS 19/19
18:30	Poster Session 1 and Exhibition						
20:00							

CAT Heterogeneous catalysis

OXI Oxide surfaces and thin films

2DM 2D materials

MOL Organic molecules and molecular architectures on surfaces

SCR Surface adsorption, desorption, diffusion and reactions

ELC Electrochemistry on surfaces

NAM Novel advancements in theoretical and experimental methods

ENM Energy materials

SEM Semiconductor surfaces

COR Corrosion and anti-corrosive coatings

NPS Functional surface nanostructures, plasmonics and sensors

WAT Water on surfaces

SAC Surface astrochemistry

UES Ultrafast dynamics and electronic structure

WAT Water on surfaces

MRS Satellite Meeting: Molecular Reaction on Surfaces

CDM Satellite Meeting: Villum Centre of Excellence for Dirac Materials

TUESDAY 28TH AUGUST

09:00	Plenary talk 2: Anders Nilsson						
10:00	Coffee break						
10:30	Kongres	Nortvegia	Dania	Suecia	Room 12	Room 11	
10:50	OXI 4/8	2DM 4/8	WAT 1/3	NAM 1/2	ELC	MRS 4/6	
11:10	OXI 7/8	2DM 7/8	CAT 2/6	MOL 3/7	NAM 2/2		
11:30							
11:50							
12:10							
12:30	Lunch						
14:00	OXI 10/10	2DM 10/10	WAT 10/10	NAM 10/10	MOL 10/10	MRS 10/10	
14:20	OXI 11/11	2DM 11/11	WAT 11/11	SEM 11/11	MOL 11/11		
14:40	OXI 12/12	2DM 12/12	WAT 12/12	SEM 12/12	MOL 12/12		
15:00	OXI 13/13	2DM 13/13	WAT 13/13	SEM 13/13	MOL 13/13		
15:20	OXI 14/14	2DM 14/14	WAT 14/14				
15:40	OXI 15/15	2DM 15/15	WAT 15/15	SEM 15/15	MOL 15/15		
16:00	Coffee break						
16:30	OXI 16/16	2DM 16/16	WAT 16/16	CAT 16/16	MOL 16/16		
16:50	OXI 17/17	2DM 17/17	WAT 17/17	SEM 17/17	MOL 17/17		
17:10	OXI 18/18	2DM 18/18	WAT 18/18	SEM 18/18	MOL 18/18		
17:30							
17:50							
18:10							
18:30	Poster Session 2 and Exhibition						
20:00							

WEDNESDAY 29TH AUGUST

09:00	Plenary talk 3: Roman Fasel						
10:00	Coffee break						
10:30	Kongres	Nortvegia	Dania	Suecia	Room 12	Room 11	
10:50	OXI 7/8	2DM 7/8	CAT 2/6	MOL 3/7	NAM 2/2		
11:10	OXI 8/8	2DM 8/8	CAT 3/6	MOL 4/7	SMI		
11:30							
11:50							
12:10							
12:30	Lunch						
14:00	OXI 10/10	2DM 10/10	WAT 10/10	NAM 10/10	MOL 10/10	MRS 10/10	
14:20	OXI 11/11	2DM 11/11	WAT 11/11	SEM 11/11	MOL 11/11		
14:40	OXI 12/12	2DM 12/12	WAT 12/12	SEM 12/12	MOL 12/12		
15:00	OXI 13/13	2DM 13/13	WAT 13/13	SEM 13/13	MOL 13/13		
15:20	OXI 14/14	2DM 14/14	WAT 14/14				
15:40	OXI 15/15	2DM 15/15	WAT 15/15	SEM 15/15	MOL 15/15		
16:00	Coffee break						
16:30							
16:50							
17:10							
17:30							
17:50							
18:10							
18:30	Poster Session 2 and Exhibition						
20:00							

THURSDAY 30TH AUGUST

TUTORIAL SEMINARS

Sunday 26th August
10:00-19:00

Three tutorial seminars take place at Aarhus University on Sunday the 26th of August, from 10:00 to 16:00.

Scanning Probe Microscopy (STM, STS, AFM) Location: G1 - Building 1532, Room 116

Photoemission Spectroscopies (XPS, ARPES) Location: G2 - Building 1532, Room 122

Theoretical Methods in Surface Science (DFT, KMC, Machine Learning) Location: Building 1525, Room 323

The location of the seminar rooms are indicated by marker 3 on the map on the opposite page. Further information regarding the seminars and their location can be found on the conference website.

SUNDAY AFTERNOON EXCURSION

The bus departs from the front of the Scandinavian Congress Centre at 12:00 for those who have signed up for the excursion to the Moesgaard Museum.

Full details of the excursion can be found on the conference website.

SUNDAY 26TH AUGUST (Aarhus University)

16:00 to 19:00 Welcome reception and registration at iNano, Aarhus University. Gustav Wieds Vej 14, 8000 Aarhus C.
Registration with drinks and snacks in the foyer of the iNano building (1590), with tours of the local laboratories in iNano, and the Physics and Chemistry departments. The location of iNano is indicated by marker 2 on the map on the opposite page. Details of how to get to iNano can be found on the conference website.



**Monday 27th
August
08:45-14:00**

monday
programme

MONDAY 27TH AUGUST (Scandinavian Congress Centre)

08:45	Welcome			
09:00	PL-1: Atomically-Resolved Oxide Surfaces: Lessons Learned, Surprises Encountered, Challenges Posed Ulrike Diebold , TU Wien, Institute of Applied Physics			
10:00	Coffee Break			
	KONGRES SAL	NORTVEGIA	DANIA	
	Chair: Niklas Nilius	Chair: Marie-Laure Bouquet	Chair: John Thrower	
10:30	OXI-CT-MON-1 Bulk and (001) surface Fe_3O_4 : electronic properties and water adsorption Hongsheng Liu , University of Milano-Bicocca <i>Di Valentin, Cristiana</i>	2DM-IT-MON-1 Quasiparticle interference in mono- and bilayer graphene Carsten Busse , Universität Siegen	SCR-IT-MON-1 Growth and Surface Chemistry of Rutile $\text{IrO}_2(110)$ Jason Weaver , University of Florida <i>Liang, Z.; Li, T.; Kim, M.; Asthagiri, A.</i>	
10:50	OXI-CT-MON-2 Surface X-ray Diffraction on Magnetite (001) Björn Arndt , Deutsches Elektron-Synchrotron (DESY) <i>Gränäs, Elin; Creutzburg, Marcus; Krausert, Konstantin; Volkov, Sergey; Noei, Heshmat; Vonk, Vedran; Stierle, Andreas</i>			
11:10	OXI-CT-MON-3 Water and Organic Molecules on Magnetite Single Crystal Surfaces Marcus Creutzburg , Deutsches Elektronen-Synchrotron (DESY) <i>Noei, Heshmat; Krausert, Konstantin; Gleißner, Robert; Arndt, Björn; Gränäs, Elin; Stierle, Andreas</i>	2DM-CT-MON-2 Relativistic Dispersion of Massive Electrons in Graphene Nanoribbons David Ecija , IMDEA Nanoscience <i>Cirera, Borja; Martín-Jimenez, Alberto; Gallego, Jose Maria; Miranda, Rodolfo; Otero, Roberto</i>	SCR-CT-MON-2 Surrounding gas effect on diffusion and adsorption of a single metal atom on heteroatom-doped graphene Shun Hasegawa , Hokkaido University <i>Kunisada, Yuji; Sakaguchi, Norihito</i>	
11:30	OXI-CT-MON-4 Link between local iron coordination, Fe 2p XPS core level line shape, and Mg segregation into thin magnetite films grown on $\text{MgO}(001)$ Joachim Wollschläger , University of Osnabrück <i>Suendorf, Martin; Schemme, Tobias; Küpper, Karsten</i>	2DM-CT-MON-3 Graphene under ultrahigh pressure: Local tuning of its electronic properties Cristina Diaz , Universidad Autónoma de Madrid <i>Ares, Pablo; Pisarra, Michele; Segovia, Pilar; Martín, Fernando; Michel, Enrique G.; Zamora, Felix; Navarro, Cristina; Gómez-Herrero, Julio</i>	SCR-CT-MON-3 Oxidation of Cu(100) through dissociative CO_2 adsorption Alvaro Posada-Borbon , Chalmers University of Technology <i>Hagman, Benjamin; Schaefer, Andreas; Zhang, Chu; Shipilin, Mikhail; Hellman, Anders; Gustafson, Johan; Grönbeck, Henrik</i>	
11:50	OXI-CT-MON-5 Carboxylic acid on Fe_3O_4 surfaces - new insights from theory and experiment Gregor Feldbauer , Hamburg University of Technology <i>Sellschopp, Kai; Arndt, Björn; Creutzburg, Marcus; Noei, Heshmat; Stierle, Andreas; Müller, Stefan</i>	2DM-CT-MON-4 Examination of the Corrugation in Hydrogenated Graphene on Ir(111) by Standing Wave XPS Claus F. P. Kastorp , Aarhus University <i>Jørgensen, Anders L.; Andersen, Mie; Duncan, David A.; Lee, Tien-Lin; Hornekær, Liv; Balog, Richard</i>	SCR-CT-MON-4 Photo-Induced Enhancement of Oxidation On p- and n-type Si(001) Surfaces Yuki Sekihata , Tohoku University <i>Ogawa, Shuichi; Yoshigoe, Akitaka; Taga, Ryo; Klyushin, Alexander; Carbonio, Emilia; Knop-Gericke, Axel; Takakuwa, Yuji</i>	
12:10	OXI-CT-MON-6 Surface Action Spectroscopy with Rare Gas Messenger Atoms Zongfang Wu , Fritz-Haber Institute of Max Planck Society <i>Liu, Y.; Plucienik, A.; Naschitzki, M.; Schöllkopf, W.; Kuhlenbeck, H.; Freund, H.</i>	2DM-CT-MON-5 Dual path hydrogenation of the graphene/Ni(111) interface. Daniel Lizzit , CNR Istituto dei Sistemi Complessi <i>Trioni, Mario; Lacovic, Paolo; Bignardi, Luca; Larciprete, Rosanna; Martinazzo, Rocco; Lizzit, Silvano</i>	SCR-CT-MON-5 Surface Structure Dependent Anchoring of Ester-functionalized Ionic Liquids on Cobalt Oxide Tao Xu , Aarhus University <i>Waehler, Tobias; Vecchietti, Julia; Bonivardi, Adrian; Bauer, Tanja; Schwegler, Johannes; Schulz, Peter S.; Wasserscheid, Peter; Libuda, Joerg</i>	
12:30	Lunch Break			

		08:45
	KONGRES SAL	Chair: Jeppe V. Lauritsen
	SUECIA	09:00
	ROOM 12	10:00
	Chair: Alex Wodtke	Chair: Mie Andersen
UES-IT-MON-1	Momentum-Resolved View of Ultrafast Dynamics of Electrons, Excitons and Phonons in Layered Semiconductors Ralph Ernstorfer , Freie Universität Berlin <i>Puppin, M.; Waldecker, L.; Nicholson, C.; Bertoni, R.; Vasileiadis, T.; Zahn, D.; Xian, P.; Monney, C.; Hübener, H.; Rubio, A.; Wolf, M.; Rettig, L.</i>	ENM-CT-MON-1 Influence of the CuO nanoparticles surfaces into assembly of Al/CuO nanothermites Segolene Palussiere , Université Toulouse III - Paul Sabatier <i>Esteve, Alain; Rossi, Carole; Fajerwerg, Katia; Fau, Pierre; Kahn, Myrtil</i>
ENM-CT-MON-2	Increasing the proton conductivity of sulfonated polyether ether ketone by incorporating graphene oxide: Morphology effect on proton dynamics Wilson Agerico Diño , Osaka University <i>Leong, Jun Xing; Ahmad, Azizan; Daud, Wan Ramli Wan; Kasai, Hideaki</i>	10:30
UES-CT-MON-2	Ultrafast dynamics of MoS_2 Klara Volckaert , Aarhus University <i>Rostami, H.; Sanders, C. E.; Biswas, D.; Majchrzak, P.; Marković, I.; Andreatta, F.; Chapman, R. T.; Wyatt, A.; Bianchi, M.; Mahatha, S. K.; Bignardi, L.; Lizzit, D.; Lacovic, P.; Lizzit, S.; Balatsky, A.; Springate, E.; Cacho, C.; King, P. D. C.; Miwa, J. A.; Hofmann, P.; Ulstrup, S.</i>	ENM-CT-MON-3 Hydrogen storage on cation-decorated biphenylene and nitrogenated holey carbon layered materials Walter Orellana , Universidad Andres Bello <i>Guerrero-Avilés, Raúl</i>
ENM-CT-MON-3	11:10	
UES-CT-MON-3	RIXS and ultra-fast molecule-surface charge transfer dynamics Robert H. Temperton , University of Nottingham <i>Handrup, Karsten; O'Shea, James</i>	ENM-CT-MON-4 Green synthesis of iron oxide hematite Fe_2O_3 and its performance in energy storage applications Abderaouf Zine , Science of materials and applications unit URSMA, Brothers Mentouri University <i>Kebaili, N.; Achour, S.; Hamana, D.</i>
ENM-CT-MON-4	11:30	
UES-CT-MON-4	Ultrafast Dynamics of Cyclooctatetraene at Cu(111) Surface Nadav Avidor , University of Cambridge <i>Lau, J. A.; Calvo-Almazan, I.; Townsend, P. S. M.; Ward, D. J.; Jardine, A. P.; Allison, W.; Ellis, J.; Hinch, B. J.</i>	ENM-CT-MON-5 Green and Cheap Hemin-based Electrocatalyst for selective CO_2 -to-CO conversion Matteo Miola , Aarhus University <i>Pedersen, Steen Uttrup; Daasbjerg, Kim; Skrydstrup, Troels; Surkus, Annette-E.; Junge, Henrik; Beller, Matthias</i>
ENM-CT-MON-5	11:50	
UES-CT-MON-5	Double photoemission on correlated electron pairs in metals Cheng-Tien Chiang , Martin-Luther-University Halle-Wittenberg <i>Trützschler, Andreas; Huth, Michael; Kamrla, Robin; Schumann, Frank O.; Widdra, Wolf</i>	ENM-CT-MON-6 Ammonia production and sticking on materials relevant to fusion reactors: tungsten and 316L stainless steel Régis Bisson , Aix-Marseille University <i>Ghiorgiu, Florin; Aïssou, Taki; Minissale, Marco; Angot, Thierry; Dé Temmerman, Gregory</i>
ENM-CT-MON-6	12:10	
		12:30

See page 50 for the programme for the Satellite Meeting: Molecular Reaction on Surfaces

- 2DM** 2D materials
 - CAT** Heterogeneous catalysis
 - COR** Corrosion and anti-corrosive coatings
 - ELC** Electrochemistry on surfaces
 - ENM** Energy materials
 - MOL** Organic molecules and molecular architectures on surfaces
 - NAM** Novel advancements in theoretical and experimental methods
 - NPS** Functional surface nanostructures, plasmonics and sensors
 - OXI** Oxide surfaces and thin films
 - SAC** Surface astrochemistry
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 - SMI** Surface magnetism and interfacial superconductivity
 - UES** Ultrafast dynamics and electronic structure
 - WAT** Water on surfaces
-  EPS Poster Prize Candidate
-  ECOSS Prize Candidate
-  EPS Student Travel Grant Winner
-  Carlsberg Foundation Student Travel Grant Winner

KONGRES SAL		NORTVEGIA	DANIA	SUECIA	ROOM 12	
Chair: Stefan Wendt	Chair: Eckart Hasselbrink	Chair: Jason Weaver	Chair: Ralph Ernstorfer	Chair: Regis Bisson		
14:00	OXI-CT-MON-7 Reactive growth of ultra-thin ceria islands on Rh(111): Structure and morphology Jens Falta , Universität Bremen Höcker, Jan; Senanayake, Sanjaya D.; Sadowski, Jerzy T.; Flege, Jan Ingo	2DM-CT-MON-6 Controlled Hydrogenation of Graphene Films Grown on a Modified Pt(111) Substrate Mohammad Panahi , Koc University Sarp, Kaya	SCR-CT-MON-6 Characterization of Molecular Adsorption Site of Single Molecular Device based on Simultaneous SERS and Electrical Measurement Manabu Kiguchi , Tokyo Institute of Technology Kaneko, Satoshi; Fujii, Shintaro	UES-CT-MON-6 Talk withdrawn.	ENM-CT-MON-7 Graphene-based new generation supercapacitors as an energy storage device Arzu Karayel , Hittit University Karayel, Arzu	14:00
14:20	OXI-CT-MON-8 Fluorine dopant promoted peroxide and superoxide groups on CeO _x F _y /Rh(111) and CeO _x F _y /Rh(110) catalyst supports Zdeněk Rafaj , Charles University Johánek, Viktor; Kettner, Miroslav; Duchoň, Tomáš; Nehasil, Vaclav	2DM-CT-MON-7 Femtosecond laser-induced associative desorption of molecular hydrogen from graphite Lorenzo Maddi Fabiani , Universität Münster Thrower, John D.; Zacharias, Helmut	SCR-CT-MON-7 Talk withdrawn.	UES-CT-MON-7 Two dimensional electron gases at semiconductor surfaces – effects of lattice and surface disorder Jacek Kolodziej , Jagiellonian University Olszowska, Natalia; Lis, Jakub	ENM-CT-MON-8 A spectroscopic study of PCBM:P3HT heterojunctions Robert Temperton , University of Nottingham Handrup, Karsten; Gibson, Andrew; O'Shea, James	14:20
14:40	OXI-CT-MON-9 On Alkyne Hydrogenation Reactions on Ceria: Model Studies on CeO ₂ (111) Films Kristin Werner , Fritz Haber Institute of the Max Planck Society Weng, X.; Calaza, F.; Sterrer, M.; Kropp, T.; Paier, J.; Sauer, J.; Wilde, M.; Fukutani, K.; Shaikutdinov, S.; Freund, H.-J. 	2DM-CT-MON-8 The Catalytic Dehydrogenation of Hydrocarbons on Metal-Free Graphene Marco Sacchi , University of Surrey Brooks, Alastair; Jenkins, Stephen J.	SCR-CT-MON-8 Molecule - metal surface interactions: Can we compute them accurately? Katharina Doblhoff-Dier , Leiden University Meyer, Jörg; Hoggan, Philipp E.; Libisch, Florian; Kroes, Geert-Jan	UES-CT-MON-8 Tracing Structural Phase Transitions and Phase Ordering at Surfaces with Ultrafast LEED Jan Gerrit Horstmann , University of Göttingen Storeck, Gero; Wit, Bareld; Diekmann, Theo; Epp, Dennis; Rossnagel, Kai; Vogelgesang, Simon; Ropers, Claus 	ENM-CT-MON-9 In Situ Investigation of Degradation at Organometal Halide Perovskite Surfaces Using Near-Ambient Pressure X-ray Photoelectron Spectroscopy Chun-Ren Ke , University of Manchester Walton, Alex S.; Lewis, David J.; Tedstone, Aleksander; O'Brien, Paul; Thomas, Andrew G.; Flavell, Wendy R. 	14:40
15:00	OXI-CT-MON-10 Electronic processes at the surface of ceria-based materials during H ₂ O chemisorption Lee Shelly , Ben Gurion University Schweke, D.; Mordehovich, Y.; Hayun, S.	2DM-CT-MON-9 Intercalation of graphene on Ru(0001): possible mechanisms Paweł Wojciechowski , Adam Mickiewicz University in Poznań Lewandowski, Mikołaj; Madej, Ewa; Miłosz, Zygmunt; Wilgocka-Ślęzak, Dorota; Hermanowicz, Michał; Spiridis, Nika; Korecki, Józef; Jurga, Stefan; Stobiecki, Feliks	SCR-CT-MON-9 Talk withdrawn, now a poster with ID: SCR-P-141	UES-IT-MON-9 Ultrafast Momentum-Resolved Carrier Dynamics in 1D Wires and 2D Heterostructures Isabella Gierz , Max Planck Institute for the Structure and Dynamics of Matter	ENM-IT-MON-10 Hybrid catalysis for efficient CO ₂ reduction using molecular complex/carbon based materials Marc Robert , Université Paris Diderot - CNRS	15:00
15:20	OXI-CT-MON-11 Direct measurement of Ni incorporation into Fe ₃ O ₄ (001) Paul Ryan , Imperial College London Jakub, Z.; Balajka, J.; Hulva, J.; Meier, M.; Küchle, J. T.; Blawey, P. J.; Thakur, P. Kumar; Franchini, C.; Payne, D. J.; Woodruff, D. P.; Rochford, L. A.; Allegretti, F.; Lee, T. -L.; Parkinson, G. S.; Duncan, D. A.	2DM-CT-MON-10 Intercalating cobalt between graphene and iridium(111): kinetics from edges and mechanical stress in graphene Sergio Vlaic , ESPCI Paris Rougemaille, N.; Artaud, A.; Vincent, T.; Pons, S.; Roditchev, D.; Renard, V.; Huder, L.; Rouviere, J-L.; Kimouche, A.; Santos, B.; Locatelli, A.; Guisset, V.; David, P.; Chapelier, C.; Magaud, L.; Canals, B.; Coraux, J.	SCR-CT-MON-10 Ir(111) Adsorbate Structure Induced Selectivity During PROX Reaction Niclas Johansson , Lund University Schnadt, Joachim; Knudsen, Jan			15:20
15:40	OXI-CT-MON-12 Orbital character of the mobile and localized electron states at the LAO/STO interface Alla Chikina , Paul Scherrer Institute Lechnermann, F.; Husanu, M. A.; Caputo, M.; Cancellieri, C.; Schmitt, Th.; Radovic, M.; Strocov, V. N. 	2DM-CT-MON-11 Decoupling Graphene from Ni(111) through the Intercalation of a Chromium Carbide Ultra-Thin Film Andrea Picone , Politecnico di Milano Giannotti, Dario; Finazzi, Marco; Duò, Lamberto; Ciccarelli, Franco; Brambilla, Alberto	SCR-CT-MON-11 Surface-Aligned Reactions at Selected Impact Parameters Kelvin Anggra , University of Toronto Leung, Lydie; Timm, Matthew J.; Hu, Zhixin; Polanyi, John C. 	UES-CT-MON-10 Time- and angle-resolved photoelectron spectroscopy of the three-dimensional Dirac semimetal Cd ₃ As ₂ Petra Hein , University of Kiel Faisal, Firas; Stumm, Corinna; Bertram, Manon; Lykhach, Yaroslava; Cherevko, Serhiy; Mayrhofer, Karl; Xiang, Feifei; Liu, Zhongkai; Prabhakaran, Dharmalingam; Bauer, Michael 	ELC-CT-MON-1 Electrifying model catalysis: Out of the vacuum – into the electrolyte Olaf Brummel , FAU Erlangen-Nürnberg Faisal, Firas; Stumm, Corinna; Bertram, Manon; Lykhach, Yaroslava; Cherevko, Serhiy; Mayrhofer, Karl; Xiang, Feifei; Schneider, M. Alexander; Libuda, Jörg	15:40
16:00	Coffee Break					16:00

Monday 27th
August
14:00-16:30

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CAT	Heterogeneous catalysis
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KONGRES SAL		NORTVEGIA	DANIA
Chair: Andreas Stierle	Chair: Masaki Tanemura	Chair: John Thrower	
16:30 OXI-CT-MON-13 Metallic Cobalt to Spinel Co_3O_4 : Electronic Structure Evolution by Near-Ambient Pressure Photoelectron Spectroscopy Prabhakar Reddy Kasala , National Chemical laboratory, Pune <i>Gopinath, Chinnakonda S.</i>	2DM-CT-MON-12 Water on Graphene-Coated TiO_2 : Role of Atomic Vacancies Martina Dattéo , University of Milano-Bicocca <i>Liu, H.; Di Valentín, C.</i>	SCR-CT-MON-12 Observation of the Quantum Tunnelling of hydrogen in Pd ultrathin film Takahiro Ozawa , The University of Tokyo <i>Shimizu, Ryota; Hitosugi, Taro; Ogura, Shohei; Fukutani, Katsuyuki</i>	
16:50 OXI-CT-MON-14 The role of interface effects on the magnetic response of $\text{MgO}/\text{Co}/\text{MgO}$ trilayers Ilaria Carlonmago , Università Roma Tre <i>Verna, A.; Rajput, P.; Baranwal, V.; Patra, N.; Khan, S. A.; Forrest, T.; Dhesi, S.; Hussain, H.; Meneghini, C.</i>	2DM-CT-MON-13 Reaction of NH_3 annealed graphene studied by near ambient pressure XPS Khadisha Zahra , The University of Manchester <i>Walton, Alex</i>	SCR-CT-MON-13 Bisphenol A and diethylstilbestrol on Cu(111): On-surface polymerization initiated by hydroxy-directed ortho C-H bond activation Peter Deimel , Technical University of Munich <i>Jiang, L.; Lloyd, J. A.; Cheol Oh, S.; Fischer, S.; Sağlam, Ö.; Stoiber, K.; Schlichting, H.; Papageorgiou, A. C.; Reichert, J.; Barth, J. V.; Allegretti, F.</i>	
17:10 OXI-CT-MON-15 Talk withdrawn.	2DM-CT-MON-14 Controllable fabrication of reduced graphene oxide membranes Hsin-Hui Huang , Toyota Technological Institute <i>Joshi, Rakesh; De Silva, Kanishka; Yoshimura, Masamichi</i>	SCR-CT-MON-14 Thermal recombination reactions on metal surfaces: Transition state theory with dynamical corrections. Oihana Galparsoro , Georg-August-Universität Göttingen <i>Alducin, M.; Kandratsenka, A.; Wodtke, A. M.</i>	
17:30 OXI-CT-MON-16 Cleaved SrTiO_3 (001) 1x1 surface studied by non-contact atomic force microscopy Igor Sokolović , Institute of Applied Physics, TU Wien <i>Schmid, Michael; Diebold, Ulrike; Setvin, Martin</i>	2DM-CT-MON-15 Silicene on ultrathin gold layers Marek Kopciuszynski , Maria Curie-Skłodowska University <i>Stepniak-Dybala, Agnieszka; Dyniec, Paweł; Krawiec, Mariusz; Zdyb, Ryszard</i>	SCR-CT-MON-15 Adsorption and Diffusion of NH_3 on Anatase- TiO_2 (101) Kræn C. Adamsen , Aarhus University <i>Kousted, S.; Kolsbjergr, E. L.; Hammer, B.; Wendt, S.; Lauritsen, J. V.</i>	
17:50 OXI-CT-MON-17 Defect density dependence of partial oxidation and deoxygenation reactions of small organic compounds on rutile TiO_2 (110) surfaces Lars Mohrhüsen , Carl von Ossietzky University of Oldenburg <i>Osmić, Milena; Al-Shamery, Katharina</i>	2DM-CT-MON-16 Measuring the Bending Rigidity of 2D Silica - New Light on the Yakobson Paradox Bodil Holst , University of Bergen <i>Büchner, C.; Eder, S. D.; Nesse, T.; Kuhness, D.; Schlexer, P.; Pacchioni, G.; Manson, J. R.; Heyde, M.; Freund, H. -J.</i>	SCR-CT-MON-16 Surface friction processes revealed by neutron scattering Peter Fouquet , Institut Laue-Langevin <i>Calvo-Almazán, Irene; Bahn, Emanuel; Miret-Artes, Salvador; Demmel, Franz; Telling, Mark T. F.; Koza, Michael M.; Maccarini, Marco; Zbiri, Mohamed</i>	
18:10 OXI-CT-MON-18 Redox reactions studies on SnO_2 and Pd/SnO_2 nanoparticles on TiO_2 (110) surface in methanol at near-ambient pressures Oleksandr Leiko , Charles University in Prague <i>Mašek, K.; Kosto, J.; Nováková, J.</i>	2DM-CT-MON-17 Boroxene: a novel 2D material Matus Stredansky , Università degli Studi di Trieste <i>Sala, Alessandro; Fontanot, Tommaso; Costantini, Roberto; Africh, Cristina; Comelli, Giovanni; Floreano, Luca; Morgante, Alberto; Cossaro, Albano</i>	SCR-CT-MON-17 A novel sensitive calorimetric technique to study energy (heat) exchange at the nano-scale Luca Basta , Scuola Normale Superiore <i>Veronesi, Stefano; Murata, Yuya; Dubois, Zoë; Mishra, Neeraj; Fabri, Filippo; Coletti, Camilla; Heun, Stefan</i>	
18:30 to 20:00 Poster Session 1 and Exhibition			

SUECIA		ROOM 12
Chair: Isabella Gierz	Chair: Marc Robert	
UES-CT-MON-11 Spin-polarized band structure of a Sn atomic layer at graphene/SiC(0001) interface Koichiro Yaji , University of Tokyo <i>Visikovskiy, Anton; Iimori, Takashi; Kuroda, Kenta; Hayashi, Shingo; Kajiwara, Takashi; Tanaka, Satoru; Komori, Fumio; Shin, Shik</i>	ELC-CT-MON-2 Electrocatalysis with well-defined $\text{Pt}/\text{Co}_3\text{O}_4$ (111) model interfaces Yaroslava Lykhach , Friedrich-Alexander-Universität Erlangen-Nürnberg <i>Brummel, Olaf; Vorokhta, Mykhailo; Šmid, Břetislav; Skála, Tomáš; Neitzel, Armin; Tsud, Nataliya; Beranová, Klára; Faisal, Firas; Prince, Kevin C.; Matolín, Vladimír; Libuda, J.</i>	16:30
UES-CT-MON-12 Analytical solutions for the surface states of $\text{Bi}_{1-x}\text{Sb}_x$ Yuki Fuseya , University of Electro-Communications <i>Fukuyama, Hidetoshi</i>	ELC-CT-MON-3 In-situ studies of the electrode/electrolyte interface using XPS Alex Walton , University of Manchester <i>Booth, Sam; Tripathi, Alok; Dryfe, Robert</i>	16:50
UES-CT-MON-13 The Electronic Structure and Transport Properties of Niobium Doped Bismuth Selenide Henriette Elisabeth Lund , Aarhus University <i>Bianchi, M.; Kevy, S. M.; Wollesen, L.; Bremholm, M.; Hastrup, M. J.; Knol, E. J.; Khajetoorians, A. A.; Wiedmann, S.; Hofmann, P.</i>	ELC-CT-MON-4 Quantitative determination of adsorbates and charge accumulation with spectroscopic ellipsometry Kurt Hingerl , University Linz <i>Cobet, Christoph; Vázquez Miranda, Saúl; Chien, Miao H.; Sharif, Reza.</i>	17:10
UES-CT-MON-14 SUNDYN: A novel setup for optical pump – X-ray probe spectroscopy at the ALOISA beamline Roberto Costantini , University of Trieste <i>Cossaro, A.; Floreano, L.; Verdini, A.; Morgante, A.; Dell'Angela, M.</i>	ELC-CT-MON-5 Investigation of liquid/solid interfaces over macroscopic distances using X-ray photoelectron spectroscopy Markus Sauer , Vienna University of Technology <i>Foelske, Annette</i>	17:30
		17:50
		18:10
		18:30 to 20:00

- 2DM** 2D materials
CAT Heterogeneous catalysis
COR Corrosion and anti-corrosive coatings
ELC Electrochemistry on surfaces
ENM Energy materials
MOL Organic molecules and molecular architectures on surfaces
NAM Novel advancements in theoretical and experimental methods
NPS Functional surface nanostructures, plasmonics and sensors
OXI Oxide surfaces and thin films
SAC Surface astrochemistry
SCR Surface adsorption, desorption, diffusion and reactions
SEM Semiconductor surfaces
SMI Surface magnetism and interfacial superconductivity
UES Ultrafast dynamics and electronic structure
WAT Water on surfaces
-  EPS Poster Prize Candidate
 ECOSS Prize Candidate
 EPS Student Travel Grant Winner
 Carlsberg Foundation Student Travel Grant Winner

**Tuesday 28th
August
09:00-12:30**

tuesday
programme

TUESDAY 28TH AUGUST

09:00	PL-2: Probing Surface Catalysis in Real Time Anders Nilsson , Stockholm University		
10:00	Coffee Break		
	KONGRES SAL	NORTVEGIA	DANIA
	Chair: Edvin Lundgren	Chair: Rosanna Larciprete	Chair: Lyderic Bouquet
10:30	OXI-IT-TUE-19 From oxide nano-objects to nano-oxides: the central role of the metallic substrate. Jacek Goniakowski , Institut des Nanosciences de Paris, CNRS & Sorbonne Université	2DM-CT-TUE-18 In-situ atomic-scale investigation of CVD-grown graphene on polycrystalline nickel substrates Cristina Africh , CNR-IOM Zou, Zhiyu; Carnevali, Virginia; Patera, Laerte; Jugovac, Matteo; Sala, Alessandro; Panighel, Mirco; Cepke, Cinzia; Peressi, Maria; Comelli, Giovanni	WAT-IT-TUE-1 Real-space investigation of microsolvation: Water structures in the presence of organic molecules or ions Karina Morgenstern , Ruhr-Universität Bochum
10:50		2DM-CT-TUE-19 Graphene growth at 150°C using novel catalysts: Why do catalysts act as catalysts? Masaki Tanemura , Nagoya Institute of Technology Araby, M. I.; Vishwakarma, R.; Sharma, S.; Wakamatsu, Y.; Takahashi, K.; Kalita, G.; Rosmi, M. S.; Yaakob, Y.; Yusop, M. Z. M.; Kitazawa, M.	
11:10	OXI-CT-TUE-20 Defects in Monolayer Films of Ti ₂ O ₃ on Au (111) Shuqiu Wang , University of Oxford Hu, Xiao; Goniakowski, Jacek; Noguera, Claudine; Castell, Martin R.	2DM-IT-TUE-20 Chemistry makes graphene interfaces great again: a first-principles investigation Marie-Laure Bocquet , Ecole Normale Supérieure - CNRS	WAT-CT-TUE-2 Wetting and ice growth on a stepped surface Andrew Hodgson , University of Liverpool Lin, Chenfang; Avidor, Nadav; Godsi, Oded; Alexandrowicz, Gil; Darling, George R.
11:30	OXI-CT-TUE-21 IRRAS and DFT Investigations of Ultrathin ZnO Films Formed on Ag(111) Xiaojuan Yu , Karlsruhe Institute of Technology Andersen, Mie; Kick, Matthias; Reuter, Karsten; Wöll, Christof; Wang, Yuemin		WAT-CT-TUE-3 Electronic structure of CoO nanoislands on Au(111) Ana Sanchez Grande , Imdea Nanoscience Rodríguez-Fernández, Jonathan; Carrasco, Esther; Lauwaet, Koen; Fester, Jakob; Miranda, Rodolfo; Lauritsen, Jeppe V.; Écija, David
11:50	OXI-CT-TUE-22 Coadsorption of chlorine and oxygen on Ag(111): STM and DFT study Boris Andryushchkin , A.M.Prokhorov General Physics Institute of Russian Academy of Sciences Shevlyuga, Vladimir; Pavlova, Tatiana; Zhdanov, Georgy; Eltsov, Konstantin	2DM-CT-TUE-21 Surface Chemistry on 2D materials Christian Papp , University Erlangen Späth, F.; Soni, H.; Steinhauer, J.; Düll, F.; Bauer, U.; Bachmann, P.; Görling, A.; Steinrück, H.-P.	WAT-CT-TUE-4 Rutile TiO ₂ (011)(2x1): Geometric Structure After Water Adsorption Hadeel Hussain , Diamond Light Source Ltd Torrelles, Xavier; Nicklin, Chris; Lindsay, Robert; Thornton, Geoff
12:10	OXI-CT-TUE-23 Moiré-free ultrathin iron oxide film: FeO(111) on Ag(111) Mikołaj Lewandowski , Adam Mickiewicz University in Poznań Pabiszak, T.; Michałak, N.; Miłosz, Z.; Babačić, V.; Wang, Y.; Hermanowicz, M.; Palotás, K.; Jurga, S.; Kiejna, A.; Wiesendanger, R.	2DM-CT-TUE-22 A monolayer of hexagonal boron nitride on Ir(111) as a template for cluster growth Moritz Will , Universität zu Köln Valerius, Philipp; Herbig, Charlotte; Jaschonek, Stephan; Atodiresei, Nicolae; Caciuc, Vasile; Michely, Thomas	WAT-CT-TUE-5 Comparison of Pure and Salty Water on Rutile Surfaces Christopher Penschke , University College London Chen, Ji; Michaelides, Angelos
12:30	Lunch Break		

KONGRES SAL			Chair: Petra Rudolf	09:00
SUECIA			Chair: Alex Walton	10:00
ROOM 12				
NAM-IT-TUE-1 Understanding Materials from Synthesis to Electronic Structure at the MAESTRO Beamline Eli Rotenberg , ALS, Lawrence Berkeley National Laboratory	ELC-CT-TUE-7 Bottom-up design of nitrogen-containing carbon catalysts for the oxygen reduction reaction Takahiro Kondo , University of Tsukuba Shibuya, Riku; Nakamura, Junji			10:30
NAM-CT-TUE-2 High-resolution retarding field analyzer for photoelectron holography of individual chemical states at surfaces Takayuki Muro , Japan Synchrotron Radiation Research Institute (JASRI) Matsushita, Tomohiro	ELC-CT-TUE-9 An ex situ near edge X-ray absorption fine structure spectroscopy study of metal phthalocyanine catalysts for CO ₂ reduction Jean-Pierre Veder , Curtin University Cheng, Yi; Zhao, Shiyong; Jiang, San Ping			11:10
NAM-CT-TUE-3 Chemical-state-discriminated hard X-ray photoelectron diffraction study for polar InN Yoshiyuki Yamashita , National Institute for Materials Science Yang, Anli; Kobata, Masaaki; Kobayashi, Keisuke	ELC-CT-TUE-10 Magnetron sputtered polycrystalline cerium oxide thin film as a new material for H ₂ O ₂ detection Julia Kosto , Charles University Zanut, A.; Franchi, S.; Khalakhan, I.; Yakovlev, Y.; Valenti, G.; Paolucci, F.; Tsud, N.; Matolin, V			11:30
NAM-CT-TUE-4 Time-Resolved X-Ray Photoelectron Diffraction of Graphene on SiC Davide Curcio , Aarhus University Volckaert, K.; Bianchi, M.; Miwa, J.; Sanders, C.; Ulstrup, S.; Kutnyakov, D.; Pressacco, F.; Brenner, G.; Medjanik, K.; Vasiliev, D.; Agustsson, S.; Chen, Y.-L.; Speck, F.; Bühlmann, K.; Gort, R.; Diekmann, F.; Rossnagel, K.; Acremann, Y.; Seyller, T.; Tusche, C.; Demsar, J.; Elmers, H.-J.; Schönhense, G.; Wurth, W.; Hofmann, P.	ELC-CT-TUE-11 A comprehensive study of electrochemical HOPG intercalation with HClO ₄ and H ₂ SO ₄ electrolytes by photoemission spectroscopy and atomic force microscopy. Madan Sangarashettyhalli Jagadeesh , Polytechnic University of Milan Calloni, A.; Yivlialin, R.; Alliata, D.; Duò, L.; Cicacci, F.; Bussetti, G.			11:50
NAM-CT-TUE-5 Novel approaches to computer simulation of self-assembled monolayers Pavel Stishenko , Omsk State Technical University Akimenko, Sergey; Myshlyavtsev, Alexander	ELC-CT-TUE-12 Electrochemical STM and Optical Studies of a Two-Dimensional J-Aggregate on Au(111) Iris Dorner , TU Vienna Müllner, Matthias; Diebold, Ulrike; Hauer, Jürgen; Lincoln, Craig N.; Mertens, Stijn F. L.			12:10
				12:30

See page 50 for the programme for the Satellite Meeting: Molecular Reaction on Surfaces

- 2DM** 2D materials
 - CAT** Heterogeneous catalysis
 - COR** Corrosion and anti-corrosive coatings
 - ELC** Electrochemistry on surfaces
 - ENM** Energy materials
 - MOL** Organic molecules and molecular architectures on surfaces
 - NAM** Novel advancements in theoretical and experimental methods
 - NPS** Functional surface nanostructures, plasmonics and sensors
 - OXI** Oxide surfaces and thin films
 - SAC** Surface astrochemistry
 - SCR** Surface adsorption, desorption, diffusion and reactions
 - SEM** Semiconductor surfaces
 - SMI** Surface magnetism and interfacial superconductivity
 - UES** Ultrafast dynamics and electronic structure
 - WAT** Water on surfaces
-  EPS Poster Prize Candidate
-  ECOSS Prize Candidate
-  EPS Student Travel Grant Winner
-  Carlsberg Foundation Student Travel Grant Winner

**Tuesday 28th
August
14:00-16:30**

tuesday programme

KONGRES SAL		NORTVEGIA	DANIA	SUECIA	ROOM 12
Chair: Jonathan Rodriguez	Chair: Christina Diaz	Chair: Andrew Hodgson		Chair: Davide Curcio	Chair: Juliana Morbec
14:00 OXI-CT-TUE-24 Copper-oxide thin films: Morphology and water adsorption Niklas Nilius , Oldenburg University Möller, Christoph; Noguera, Claudine; Goniakowski, Jacek	2DM-CT-TUE-23 Tailoring the hexagonal boron nitride nanomesh on Rh(111) by gold R. Richard Gubó , ELI-ALPS, University of Szeged Vári, Gábor; Kiss, János; Farkas, Arnold Péter; Óvári, László; Berkó, András; Kónya, Zoltán	WAT-IT-TUE-6 Solid-liquid Interfaces: a new Surface Science frontier Miquel Salmeron , Lawrence Berkeley National Laboratory		NAM-CT-TUE-6 Transmission surface diffraction for μm-resolved in-situ studies of heterogeneous electrodes Tim Wiegmann , European Synchrotron Radiation Facility Reikowski, Finn; Maroun, Fouad; Drnec, Jakub; Magnusson, Olaf M.	MOL-CT-TUE-1 Self-Assembled Monolayers of Non-Planar Aromatic Carboxylic Acids on Ag Rodrigo M. Ortiz de la Morena , Saint Andrews University Valásek, Michal; Sauter, Eric; Lu, Hao; Zharnikov, Michael; Mayor, Marcel; Buck, Manfred
14:20 OXI-CT-TUE-25 Iron Dopants in Cobalt Oxide on Au(111): Structural Insight into Synergistic Effects in Mixed Metal Oxides Zhaozong Sun , Aarhus University Rodríguez-Fernández, Jonathan; Zhang, Liang; Tan, Ting; Fester, Jakob; Vojvodic, Aleksandra; Lauritsen, Jeppe V.	2DM-CT-TUE-24 Self-assembly of ordered graphene nanodot arrays Luca Camilli , Danish Technical University Jørgensen, Jakob; Tersoff, Jerry; Stoot, Adam; Balog, Richard; Cassidy, Andrew; Sadowski, Jerzy T.; Bøggild, Peter; Hornekær, Liv			NAM-CT-TUE-7 Surface electromigration of Si advacancy and adatom islands Ali El Barraj , CINaM - Aix Marseille university Curiotto, S.; Cheynis, F.; Müller, P.; Leroy, F.	MOL-CT-TUE-2 Xanthine Quartets on Au(111) Miao Yu , Harbin Institute of Technology
14:40 OXI-CT-TUE-26 Ultrathin antiferromagnetic mixed nickel-cobalt oxide films Anna Mandziak , Alba synchrotron de la Figuera, Juan; Delgado, Guiomar; Sanchez, Arenillas, Maria; Prieto, Pilar; Prieto, Jose Emilio; Ruiz Gomez, Sandra; Quesada, Adrian; Aballe, Lucia; Foerster, Michael	2DM-CT-TUE-25 How to measure the bandstructures of insulators and semiconductors Søren Ulstrup , Aarhus University Shevitski, Brian; Koch, Roland J.; Katoch, Jyoti; Moser, Simon; Schwarz, Daniel; Kawakami, Roland K.; Bostwick, Aaron; Rotenberg, Eli; Aloni, Shaul; Jozwiak, Chris	WAT-CT-TUE-7 Localizing Adsorption and Deprotonation Sites of Water on SrTiO ₃ by X-ray Standing Wave Excited Photoelectron Spectroscopy (XSW-XPS) Vladyslav Solokha , Diamond Light Source Ltd/ Johannes Kepler University Linz Garai, Debi; Wilson, Axel; Duncan, David; Hingerl, Kurt; Zegenhagen, Jörg		SEM-CT-TUE-1 Atomic Computational Elements Using Silicon Dangling Bonds Thomas Dienel , University of Alberta Huff, Taleana; Rashidi, Mohammad; Wolkow, Robert	MOL-CT-TUE-3 Layer formation of molecular dyes on titania surfaces Bartosz Such , Jagiellonian University Bodek, Lukasz; Cebrat, Aleksandra; Zajac, Lukasz
15:00 OXI-CT-TUE-27 Reducing and oxidizing a non-reducible oxide: Crystallographic and electronic structure of ZrO ₂ films Peter Lackner , Technical University Vienna Zou, Zhiyu; Mayr, Sabrina; Diebold, Ulrike; Schmid, Michael	2DM-CT-TUE-26 Band alignment analysis of 2D SnS with Anatase (101), Rutile (110), and ZnO (100) by x-ray photoelectron spectroscopy Kane Norton , University of Manchester Jones, Rosemary A.; Lewis, David; Syres, Karen; Tedstone, Aleksander; Li, Zheshen; O'Brien, Paul; Thomas, Andrew	WAT-CT-TUE-8 H ₂ O Adsorption on Magnetite Fe ₃ O ₄ (001) Matthias Meier , University of Vienna Hulva, Jan; Jakub, Zdenek; Pavleček, Jiří; Blímel, Roland; Setvin, Martin; Schmid, Michael; Diebold, Ulrike; Franchini, Cesare; Parkinson, Gareth S.		SEM-CT-TUE-2 Quantum confinement dependency of a 2DEG in Si:P delta-layers Ann Julie Holt , Aarhus University Mahatha, Sanjoy; Stan, Raluca-Maria; Strand, Frode; Nyborg, Thomas; Schenk, Alex; Cool, Simon P.; Bianchi, Marco; Hofmann, Philip; Wells, Justin W.; Miwa, Jill A.	MOL-CT-TUE-4 The prototypical organic-oxide interface: Adsorption and monolayer formation of sexiphenyl on In ₂ O ₃ (111) Margareta Wagner , TU Wien Hofinger, Jakob; Setvin, Martin; Boatner, Lynn A.; Schmid, Michael; Diebold, Ulrike
15:20 OXI-CT-TUE-28 ZnO Thin Films on Pt (111), an Inverse Oxide/Metal Nanocatalyst: Fabrication and Characterizations by STM, LEED, STS and XPS Hang Liu , Sorbonne Université, Laboratoire de Chimie Physique - Matière et Rayonnement Zakhtser, Alter; Naitabdi, Ahmed; Rochet, François	2DM-CT-TUE-27 Surface phonons and charge density wave excitations at topological semimetal and insulator surfaces Anton Tamöggl , Graz University of Technology Kraus, Patrick; Mayrhofer-Reinhartshuber, Michael; Ruckhofer, Adrian; Benedek, Giorgia; Bernasconi, Marco; Dragoni, Daniele; Campi, Davide; Bianchi, Marco; Hofmann, Philip; Ernst, Wolfgang E.	WAT-CT-TUE-9 Atomic-scale structure and reactivity of the hematite α-Fe ₂ O ₃ (1-102) surface Florian Kraushofer , TU Wien Jakub, Zdenek; Bichler, Magdalena; Hulva, Jan; Balajka, Jan; Setvin, Martin; Schmid, Michael; Diebold, Ulrike; Blaha, Peter; Parkinson, Gareth S.		SEM-CT-TUE-3 Surface Structure of As-modified Si(100) prepared in MOCVD Ambient Peter Kleinschmidt , Technische Universität Ilmenau Paszuk, A.; Nandy, M.; Supplie, O.; Hannappel, T.	MOL-CT-TUE-5 Tailoring the Structural, Electronic and Magnetic Properties of C ₆₀ /Fe(001) through Insertion of a Two-Dimensional Oxide at the Interface Andrea Picone , Politecnico di Milano Brambilla, Alberto; Giannotti, Dario; Calloni, Alberto; Bussetti, Gianlorenzo; Fratesi, Guido; Achilli, Simona; Trioni, Mario; Vinai, Giovanni; Torelli, Piero; Panaccione, Giancarlo; Finazzi, Marco; Duò, Lamberto; Cicacci, Franco
15:40 OXI-CT-TUE-29 Structure and stability of vicinal ZnO Elin Gränäs , Deutsches Elektronen-Synchrotron (DESY) Arndt, Björn; Creutzburg, Marcus; Semione, Guilherme Dalla Lana; Schaefer, Andreas; Gustafson, Johan; Noei, Heshmat; Stierle, Andreas	2DM-CT-TUE-28 Surface phonon dispersion of Bi ₂ Se ₃ (111): evidence for a prominent surface acoustic wave Adrian Ruckhofer , Graz University of Technology Tamtögl, Anton; Campi, Davide; Pusterhofer, Michael; Bianchi, Marco; Hofmann, Philip; Benedek, Giorgia; Ernst, Wolfgang;	WAT-CT-TUE-10 Water and hydroxyl adsorption on hematite α-Fe ₂ O ₃ (0001) surface Tomasz Pabisak , Institute of Experimental Physics, University of Wrocław Kiejna, Adam		SEM-CT-TUE-4 Group IV terminations of (100) and (111) diamond surfaces Michael Sear , La Trobe University Schenk, Alex; Tadich, Anton; Stacey, Alastair; Pakes, Chris	MOL-CT-TUE-6 Buckling of Thin films Constituting Organic Light Emitting Diodes Toshiro Kobayashi , National Institute of Technology, Tsuyama College Utsumi, Yuichi; Kanematsu, Hideyuki; Masuda, Tsuyoshi; Nishikawa, Takao
16:00 Coffee Break					16:00

- EPS Poster Prize Candidate
- ECOSS Prize Candidate
- EPS Student Travel Grant Winner
- Carlsberg Foundation Student Travel Grant Winner

See page 50 for the programme for the Satellite Meeting: Molecular Reaction on Surfaces

**Tuesday 28th
August
16:30-20:00**

Tuesday programme

KONGRES SAL		NORTVEGIA	DANIA	SUECIA	ROOM 12
Chair: Joachim Paier	Chair: Luca Camilli	Chair: Charles Sykes	Chair: Jennifer McCloud	Chair: David Duncan	
16:30 OXI-CT-TUE-30 In-situ study on the growth and decay of oxide quasicrystals Stefan Förster , Martin-Luther-Universität Halle-Wittenberg Flege, Jan Ingo; Pantzer, Jonas; Zollner, Eva Maria; Falta, Jens; Widdra, Wolf	2DM-CT-TUE-29 Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(111) Mikhail Otrökov , Centro de Física de Materiales (CFM-MPC), Centro Mixto CSIC-UPV/EHU Klimovskikh, I. I.; Calleja, F.; Shikin, A. M.; Vilkov, O.; Rybkin, A. G.; Estyunin, D.; Muff, S.; Dil, J. H.; Vazquez de Parga, A. L.; Miranda, R.; Ochoa, H.; Guinea, F.; Cerdá, I.; Chulkov, E. V.; Arnau, A.	CAT-IT-TUE-1 Scaling-relation-based kinetic Monte Carlo modelling of syngas reactions on stepped metals Mie Andersen , Technische Universität München	SEM-CT-TUE-5 Strain induced quasi-one dimensional structure of rare earth silicides on Si(111) Joachim Wöllschläger , Universität Osnabrück Timmer, Frederic; Oelke, Robert; Dues, Christoph; Sanna, Simone; Schmidt, Wolf Gero; Franz, Martin; Appelfeller, Stephan; Dähne, Mario	MOL-CT-TUE-7 Adsorption of azulene and naphthalene on coinage metal surfaces: insights from first-principles calculations Juliana Morbec , University of Duisburg-Essen Kratzer, Peter	16:30
16:50 OXI-CT-TUE-31 Tailoring the Properties of Metal-Oxide Interfaces through Graphene Alessandro Lodesani , Politecnico di Milano Picone, Andrea; Brambilla, Alberto; Giannotti, Dario; Calloni, Alberto; Bussetti, Gianlorenzo; Berti, Giulia; Duò, Lamberto; Finazzi, Marco; Cicacci, Franco	2DM-CT-TUE-30 Structure and magnetism of an ultra small iron nanoparticle superlattice on graphene on iridium Konstantin Krausert , Deutsches Elektronen-Synchrotron (DESY) Gränäs, E.; Franz, D.; Vonk, V.; Creutzburg, M.; Arndt, B.; Pandey, A. D.; Töber, S.; Kielgast, F.; Baev, I.; Shayduk, R.; Noei, H.; Martins, M.; Stierle, A.		SEM-CT-TUE-6 Chemically driven growth of Gold-rich nanostructures on AlIBV semiconductor surfaces Benedykt Jany , Jagiellonian University Krakow Janas, A.; Szajna, K.; Kryształ, O.; Cempura, G.; Kruk, A.; Czyżyska-Filemonowicz, A.; Krok, F.	MOL-CT-TUE-8 Interface constraints leading to 2D-quasicrystalline fullerene structures Silvia Karthäuser , Forschungszentrum Jülich GmbH Päßens, Michael; Atodiresei, Nicolae; Caciuc, Vasile	16:50
17:10 OXI-CT-TUE-32 A Pseudo-2D "Zigzag" Silica Polymorph on a Metal Support Hyun Jin Yang , Fritz Haber Institute of Max-Planck-Society Kuhness, David; Heyde, Markus; Freund, Hans-Joachim	2DM-CT-TUE-31 Black-phosphorous-like bismuthene and antimonene in topological van der Waals heterostructures Tobias Maerkli , University of Canterbury Kowalczyk, P. J.; Mahajan, I. V.; Le Ster, M.; Pirie, H.; Bian, G.; Wang, X. X.; Chiang, T. -C.; Brown, S. A.	CAT-CT-TUE-2 Model Studies On Ligand-Assisted Heterogeneous Catalysis Swetlana Schauermann , Christian-Albrechts-University Kiel Dostert, K. -H.; O'Brien, C. P.; Attia, S.; Schroeder, C.; Schmidt, M.; Spadafora, E.	SEM-CT-TUE-7 Thermal stability of photon-enhanced thermionic emission from Cs/GaAs and GaAs(Cs,O) surfaces Andrey Zhuravlev , Novosibirsk State University Khoroshilov, Vladimir; Alperovich, Vitaliy	MOL-CT-TUE-9 Role of van der Waals interactions in the enantioselectivity of PdGa(111) surfaces Carlo Antonio Pignedoli , Swiss Federal Laboratories for Materials Science and Technology, Empa Yakutovich, A. V.; Hoja, J.; Passerone, D.; Tkatchenko, A.	17:10
17:30 OXI-CT-TUE-33 Activation of small molecules on oxides and at metal-oxide interfaces Laszlo Deak , MTA-SZTE Reaction Kinetics and Surface Chemistry Research Group Szenti, I.; Konya, Z.	2DM-CT-TUE-32 An electrically controlled single atom magnetic switch on black phosphorus Brian Kiraly , Radboud University Rudenko, Alexander N.; van Weerdenburg, Werner M. J.; Katsnelson, Mikhail I.; Khajetoorians, Alexander A.	CAT-CT-TUE-3 Is the (activity of the) whole greater than the sum of its parts? Simulating oxidation reactions with a multi-lattice kMC model Albert Bruix , Technical University Munich Reuter, Karsten	SEM-CT-TUE-8 Electrochemical Atomic Layer Deposition of semiconductor thin films. Francesco Carla , ESRF Giaccherini, Andrea; Berretti, Enrico; Innocenti, Massimo; di Benedetto, Francesco; Felici, Roberto	MOL-CT-TUE-10 Modification of single-atom Ag contacts by CO adsorption Atasi Chatterjee , Leibniz Universität Hannover Stöckmann, Jan Philipp; Tegenkamp, Christoph; Pfür, Herbert	17:30
17:50 OXI-CT-TUE-34 Large interface conductivity as a consequence of the regular network of misfit dislocations in BaZr _{0.8} Y _{0.2} O _{3-x} /NdGaO ₃ heteroepitaxial structure Francesca Zarotti , Università di Roma Tor Vergata Felici, Roberto; Aruta, Carmela; Yang, Nan; Foglietti, Vittorio; Cantoni, Claudia; Tebano, Antonello; Carlà, Francesco; Balestrino, Giuseppe;	2DM-CT-TUE-33 Growth and nanoscale surface properties of two-dimensional nanocrystals synthesized by pulsed laser deposition Francesco Tumino , Politecnico di Milano Casari, Carlo S.; Passoni, Matteo; Russo, Valeria; Li Bassi, Andrea	CAT-CT-TUE-4 Interaction of HCl with a CeO ₂ (111) Layer Supported on Ru(0001): A Theory-and-Experiment Combined Study Volkmar Koller , Justus-Liebig-Universität Gießen Sack, Christian; Lustemberg, Pablo; Ganduglia-Pirovano, Verónica; Over, Herbert	SEM-CT-TUE-9 Quantum well states in thin Ag films on Ga/Si(111)-v3xV3. Hanmin Zhang , Karlstad University Starfelt, Samuel; Johansson, Lars	MOL-CT-TUE-11 Charge transport properties of mechanochromic single-molecule junctions Shintaro Fujii , Tokyo Inst. of Tech. Koike, Masato; Kiguchi, Manabu; Shoji, Yoshiaki; Fukushima, Takanori	17:50
18:10	2DM-CT-TUE-34 Intrinsic potential barriers of heterojunctions formed by multi-terraced indium selenide nanosheets Juan Francisco Sánchez Royo , University of Valencia Brotons-Gisbert, Mauro; Andres-Penares, Daniel; Martínez-Pastor, Juan P.; Avila, Jose; Asensio, María Carmen			MOL-CT-TUE-12 Structural Evolution of a Cyclooctatetraene Adlayer on Cu(111) During Isothermal Desorption Nadav Avidor , University of Cambridge Lau, J. A.; Calvo-Almazan, I.; Townsend, P. S. M.; Ward, D. J.; Jardine, A. P.; Allison, W.; Ellis, J.; Hinch, B. J.	18:10
18:30 to 20:00 Poster Session 2 and Exhibition					18:30 to 20:00

See page 50 for the programme for the Satellite Meeting: Molecular Reaction on Surfaces

-  EPS Poster Prize Candidate
-  ECOSS Prize Candidate
-  EPS Student Travel Grant Winner
-  Carlsberg Foundation Student Travel Grant Winner

WEDNESDAY 29TH AUGUST

09:00	PL-3: On-surface synthesis of graphene nanoribbons: From molecules to devices. Roman Fasel , Empa, Swiss Federal Laboratories for Materials Science and Technology		
10:00	Coffee Break		
	KONGRES SAL	NORTVEGIA	DANIA
	Chair: Henrik Grönbeck	Chair: Bodil Holst	Chair: Jakob Kibsgaard
10:30	OXI-CT-WED-35 In-situ studies of La _(1-x) Sr _x MnO ₃ films grown by PLD Giada Franceschi , TU Wien - Institute of Applied Physics Riva, Michele; Schmid, Michael; Diebold, Ulrike	2DM-CT-WED-35 Epitaxial Growth of Monolayer MoS ₂ on SrTiO ₃ Single Crystal Substrates Peiyu Chen , University of Oxford Xu, Wenshuo; Gao, Yakun; Warner, Jamie H.; Castell, Martin R.	CAT-CT-WED-6 Preparation of single crystalline iron carbide model catalysts for syngas conversion via the Fischer-Tropsch synthesis. Daniel García Rodríguez , DIFFER Weststrate, Kees-Jan
10:50	OXI-CT-WED-36 Gold oxide formation in the presence of Ti under CO oxidation conditions Dajo Boden , Leiden University Prabhu, M.K.; Groot, I.M.N.	2DM-CT-WED-36 The interfacial transport of 2D layered semiconductor investigated by scanning probe microscopy approach Zegao Wang , Aarhus University Dong, Mingdong	CAT-CT-WED-7 Carbon precursor structures and graphene on palladium nanoparticles Clemens Barth , Aix-Marseille Université, CNRS
11:10	OXI-CT-WED-37 Combining HESXRD and LED reflectance during a catalytic reaction Stefano Albertin , Lund University Zhou, Jianfeng; Hejral, Uta; Pfaff, Sebastian; Zetterberg, Johan; Shipilin, Mikhail; Blomberg, Sara; Gustafson, Johan; Lundgren, Edvin	2DM-CT-WED-37 DC bias dependent nanoscale carrier distribution on a few-layer WSe ₂ on SiO ₂ observed by scanning nonlinear dielectric microscopy Kohei Yamasue , Tohoku University Kato, Toshiaki; Kaneko, Toshiro; Cho, Yasuo	CAT-CT-WED-8 The CO-induced surface reconstruction on Co(11-20) – a combined theoretical and experimental investigation Marie Døvre Strømsheim , Norwegian University of Science and Technology Svenum, Ingeborg-Helene; Farstad, Mari Helene; Weststrate, Kees-Jan; Borg, Anne; Venvik, Hilde Johnsen
11:30	OXI-CT-WED-38 Direct Projection Analysis of EXAFS Modulations Karl-Michael Schindler , Martin-Luther-University Halle-Wittenberg Bayat, Alireza	2DM-CT-WED-38 Bi-intercalated WS ₂ on Ag(111): a nearly free standing semiconducting single-layer of WS ₂ Sanjoy Kr Mahatha , Aarhus University Dendzik, Maciej; Sanders, Charlotte E; Michiardi, Matteo; Bianchi, Marco; Miwa, Jill; Hofmann, Philip	CAT-CT-WED-9 Dissociative adsorption of CO ₂ : The role of the steps Benjamin Hagman , Lund University Posada-Borbón, Alvaro; Schaefer, Andreas; Martin, Natalia M.; Grönbeck, Henrik; Lundgren, Edvin; Gustafson, Johan
11:50	OXI-CT-WED-39 How to tune optical properties of porous gold nanoparticles? Laura Juhász , University of Debrecen Párditka, B.; Cserháti, C.; Erdélyi, Z.	2DM-IT-WED-39 Tungsten disulfide on graphene: structural, electronic, nanotribological properties and optoelectronic applications Camilla Coletti , Istituto Italiano di Tecnologia	CAT-CT-WED-10 CO as an active spectator species in hydrocarbon conversions related to Fischer-Tropsch synthesis Kees-Jan Weststrate , Syngaschem BV Niemantsverdriet, J. W.
12:10	OXI-CT-WED-40 Machine learning accelerated optimization of cluster and surface structures Björk Hammer , Aarhus University		CAT-CT-WED-11 In situ UV-vis characterization and activity testing of flat model catalysts in custom built micro reactors Hans Fredriksson , Syngaschem BV Bu, Yibin; Niemantsverdriet, J. W.
12:30	Lunch Break		

KONGRES SAL		Chair: Trolle R. Linderoth	09:00
SUECIA		10:00	
ROOM 11			
MOL-CT-WED-13 On-surface switching off and on of Ullmann coupling by molecular gases Jonathan Rodríguez-Fernández , Interdisciplinary Nanoscience Center (iNANO), Aarhus University Schmidt, Søren Birthin; Lauritsen, Jeppe V.	NAM-IT-WED-8 Zooming into atomic interactions with lateral force microscopy Jay Weymouth , University of Regensburg Giessibl, Franz J.	10:30	
MOL-CT-WED-14 Comparing Interfacial Interactions in Tetrapyrrole Monolayers on Ag(111): Porphyrins vs. Corroles Martin Schmid , Philipps Universität Marburg Zugermeier, M.; Herritsch, J.; Klein, B. P.; Krug, C. K.; Ruppenthal, L.; Müller, P.; Kothe, M.; Schwelyn, P.; Bröring, M.; Gottfried, J. M.	10:50		
MOL-CT-WED-15 Ordering of Phthalocyanines on Thallium-Passivated Silicon Surfaces: Influence of Fluorination Pavel Kocan , Charles University Matvija, Peter; Sobotík, Pavel; Pieczyrak, Barbara; Jurczyszyn, Leszek; Rozbořil, Filip; Oštádal, Ivan	NAM-CT-WED-9 After 30 years STM still isn't easy Mads Engelund , Espeem	11:10	
MOL-CT-WED-16 Previously reported conformational changes due to self-metalation of a porphyrin are not present David A. Duncan , Diamond Light Source Knecht, Peter; Blowey, Phil J.; Rochford, Luke A.; Allegretti, F.; Papageorgiou, Anthoula C.; Thakur, Pardeep Kumar; Lee, Tien-Lin	NAM-CT-WED-10 Contrast Mechanisms in Scanning Helium Atom Microscopy Andrew Jardine , University of Cambridge Bergin, Matthew; Lambrick, Sam; Schulze, Susanne; Ward, David; Ellis, John	11:30	
MOL-CT-WED-17 “Fuzzy” adsorption of phthalocyanine molecules on metal passivated silicon surfaces Ivan Oštádal , Charles University Majer, Karel; Zimmermann, Petr; Doležal, Jiří; Sobotík, Pavel; Kocán, Pavel	NAM-CT-WED-11 Maximising the resolving power of the scanning tunneling microscope Shuqiu Wang , University of Oxford Jones, Lewys; Hu, Xiao; Rahman, Shams Ur; Castell, Martin R.	11:50	
MOL-CT-WED-18 Porphyrin Functionalised Graphene Nanoribbons Attilio Cafolla , Dublin City University McGuinness, C.; Garcia, C.; Nadin, S.; Motta, C.; Sanvito, S.; Ryan, A.; Sengen, M. O.; Simonov, K.; Generalov, A. V.; Preobrajenski, A. B.	NAM-CT-WED-12 Low-temperature magnetic resonance force microscopy probe for easy sample exchange Soonho Won , Korea Institute of Materials Science Saun, Seung-Bo; Heo, Jinhee	12:10	
		12:30	

Wednesday 29th
August
09:00-14:00

- 2DM** 2D materials
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 - UES** Ultrafast dynamics and electronic structure
 - WAT** Water on surfaces
- EPS Poster Prize Candidate
- ECOSS Prize Candidate
- EPS Student Travel Grant Winner
- Carlsberg Foundation Student Travel Grant Winner

**Wednesday 29th
August
14:00-16:30**

wednesday
programme
p.m.

KONGRES SAL		NORTVEGIA	DANIA	SUECIA	ROOM 11
Chair: Jacek Goniakowski	Chair: Charlotte Sanders	Chair: Swetlana Schauerman	Chair: Wolfgang Ernst	Chair: Philip Hofmann	
14:00	OXI-IT-WED-41 Reactions at oxide surfaces and oxide/metal interfaces Henrik Grönbeck , Chalmers University of Technology	2DM-CT-WED-40 Structural characterization of single layer V _{1+x} S ₂ on Au(111) Raluca-Maria Stan , Aarhus University Arnold, Fabian; Mahatha, Sanjoy; Lund, Henriette Elisabeth; Curcio, Davide; Dendzik, Maciej; Bana, Harsh; Travaglia, Elisabetta; Bignardi, Luca; Lacovig, Paolo; Lizzit, Daniel; Bianchi, Marco; Miwa, Jill; Bremholm, Martin; Lizzit, Silvano; Hofmann, Philip; Sanders, Charlotte E.	CAT-CT-WED-12 Insight of the methanol-to-DME reaction from descriptor-based microkinetic modelling Adam Arvidsson , Chalmers University of Technology Plessow, Philipp N.; Hellman, Anders; Studt, Felix	MOL-IT-WED-19 On-Surface Synthesis and Manipulation of Functional Molecules Leonhard Grill , University of Graz	SMI-IT-WED-1 An orbitally driven single atom magnetic memory on black phosphorus Alexander Khajetorians , Radboud University
14:20		2DM-CT-WED-41 Structural and electronic characterization of sulfur depleted monolayer VS ₂ synthesized on Au(111) Umut Kamber , Radboud University Arnold, Fabian; Kiraly, Brian; Stan, Raluca-Maria; Ngankeu, Arlette S.; Bianchi, Marco; Miwa, Jill A.; Sanders, Charlotte; Hofmann, Philip; Khajetorians, Alexander A.	CAT-CT-WED-13 A different balance of power between surface segregation and chemical ordering in Co-Pt and Pt-Ag nanoalloys. Alexis Front , Alx Marseille University Legrand, B.; Tréglia, G.; Mottet, C.		
14:40	OXI-CT-WED-42 CO Oxidation over IrO ₂ (110) – A DFT Study Michael Busch , Chalmers University of Technology Abb, Marcel; Langsdorf, Daniel; Over, Herbert; Grönbeck, Henrik	2DM-CT-WED-42 Layered materials as an active part of magnetic field sensors Wojciech Koczorowski , Wielkopolska Centre of Advanced Technologies El-Ahmar, Semir; Dembowiak, Jacek; Kuświk, Piotr; Przychodnia, Marta; Czajka, Ryszard	CAT-IT-WED-14 Designing Heterogeneous Alloy Catalysts from First Principles and Surface Science Charles Sykes , Tufts University	MOL-CT-WED-20 On-surface synthesis and characterization of a new low-bandgap graphene nanoribbon Qiang Sun , Empa, Swiss Federal Laboratories for Materials Science and Technology Ruffieux, Pascal; Fasel, Roman	SMI-CT-WED-2 First-principles prediction of ferromagnetism in MnB and MnC monolayer films on nonmagnetic transition-metal surfaces Yoshihiro Gohda , Tokyo Institute of Technology Nakamura, Shogo
15:00	OXI-CT-WED-43 Ab-initio studies of the (011) and (110) surfaces of rutile VO ₂ Florian Mittendorfer , Vienna University of Technology Planer, Jakub; Redinger, Josef	2DM-CT-WED-43 Highly-Ordered MoS ₂ Single Layers on the Anisotropic Ag(110) Luca Bignardi , Elettra Sincrotrone Trieste Mahatha, Sanjoy; Lizzit, Daniel; Bana, Harsh; Travaglia, Elisabetta; Sanders, Charlotte; Bianchi, Marco; Lacovig, Paolo; Hofmann, Philip; Lizzit, Silvano		MOL-CT-WED-21 Reversible C-C bond formation in a surface reaction catalysed by graphene on Ru(0001) Juan Jesús Navarro , Universidad Autónoma de Madrid Pisarra, M.; Nieto-Ortega, B.; Villalva, J.; Díaz, C.; Calleja, F.; Miranda, R.; Martín, F.; Pérez, E. M.; Vázquez de Parga, A. L.	SMI-CT-WED-3 Talk withdrawn.
15:20	OXI-CT-WED-44 A DFT study of new zirconia bulk phases and the stability of thin zirconia films Jakub Planer , Vienna University of Technology Mayr-Schmöller, Wernfried; Mittendorfer, Florian; Redinger, Josef	2DM-CT-WED-44 Epitaxial Growth of Single-Orientation High-Quality MoS ₂ Monolayers on Au(111) Daniel Lizzit , Elettra - Sincrotrone Trieste S.C.p.A Bana, H.; Travaglia, E.; Bignardi, L.; Lacovig, P.; Sanders, C.; Dendzik, M.; Michiardi, M.; Bianchi, M.; Presel, F.; De Angelis, D.; Apostol, P. K.; Fujii, J.; Vobornik, I.; Larciprete, R.; Baraldi, A.; Hofmann, P.; Lizzit, S.	CAT-CT-WED-15 Extreme case of catalyst reconstruction: Adsorption and reaction-induced 3D nanoporosity Cédric Barroo , Université Libre de Bruxelles Montemore, Matthew M.; Akey, Austin J.; Kaxiras, Efthimios; Biener, Juergen; Bell, David C.	MOL-CT-WED-22 Metallation by lanthanides of surface-confined multipyrroles David Ecija , IMDEA Nanoscience Cirera, Borja; Martin-Jimenez, Alberto; Otero, Roberto; Gallego, José María; Miranda, Rodolfo	SMI-IT-WED-4 Atomic scale imaging of stain-tuned emergent phases of matter Peter Wahl , University of St Andrews
15:40	OXI-CT-WED-45 CO ₂ capture on iron oxide surfaces: Tuning redox behavior in favor of host-guest-type interactions Joachim Paier , Humboldt University Li, Xiaoke	2DM-CT-WED-45 Formation of edge-bonded MoS ₂ -molecular nanowires interconnects by Ullmann coupling on MoS ₂ /Au(111) Jonathan Rodríguez Fernández , Interdisciplinary Nanoscience Center (iNANO), Aarhus University Schmidt, Søren Birthin; Grønborg, Signe S.; Lauritsen, Jeppe V.	CAT-CT-WED-16 Segregation Phenomena in Size-Selected Bimetallic CuNi Nanoparticle Catalysts for CO ₂ hydrogenation Ioannis Zegkinoglou , Ruhr University Bochum Pielsticker, Lukas; Divins, Nuria J.; Cuenya, Beatriz Roldan	MOL-CT-WED-23 On-surface synthesis of unsubstituted Tetraazapentacene network by controlled electric field effect Thomas Leoni , Aix-Marseille University Lelaidier, Tony; Thomas, Anthony; Ranguis, Alain; Siri, Olivier; Attacalite, Claudio; Becker, Conrad	
16:00	Coffee Break				

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 - WAT** Water on surfaces
-  EPS Poster Prize Candidate
 ECOSS Prize Candidate
 EPS Student Travel Grant Winner
 Carlsberg Foundation Student Travel Grant Winner

CONFERENCE DINNER

Conference dinner at “The Old Town” (Den Gamle By)

Remember to bring your ticket and name badge for entry to the museum.

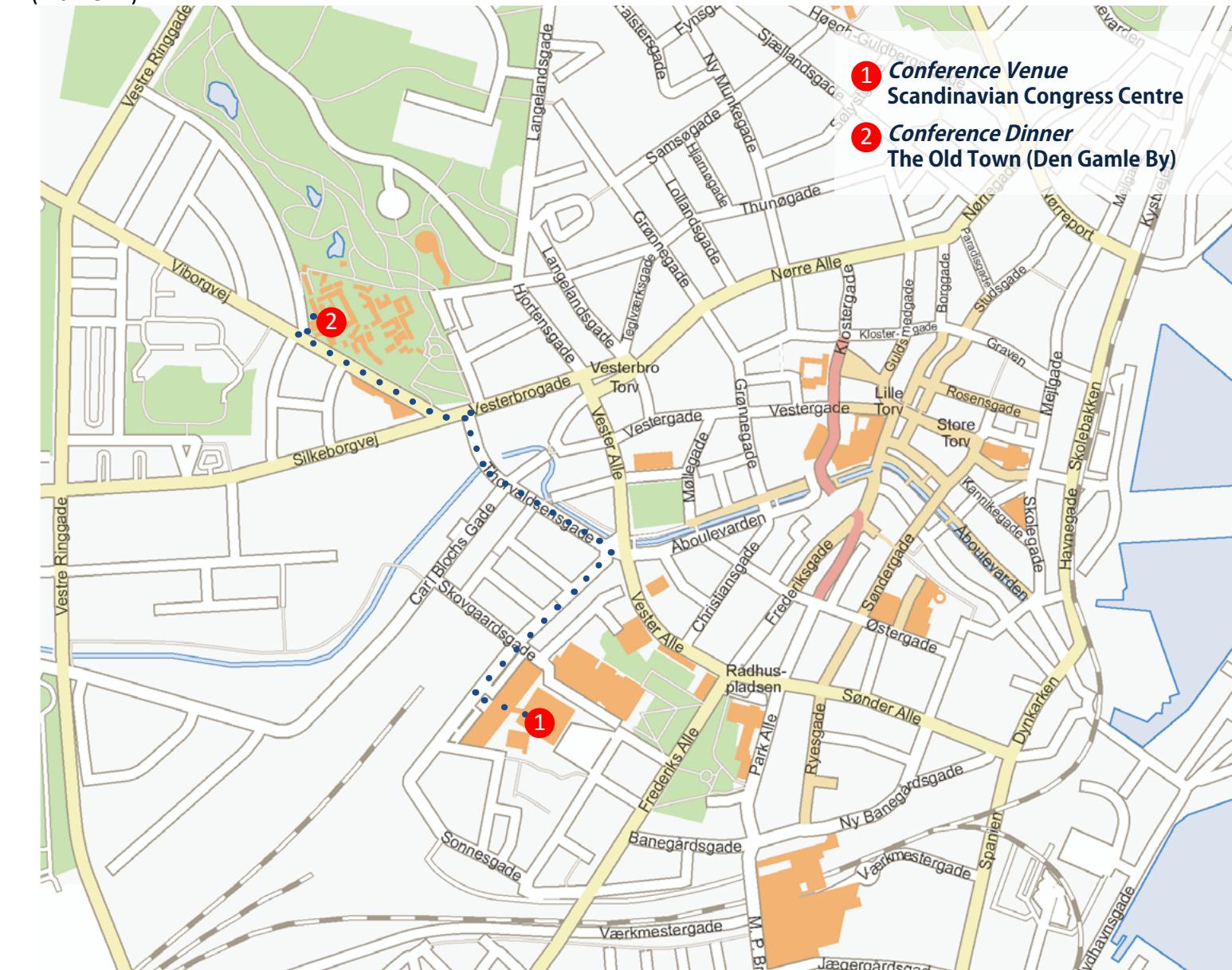
18:00 to 20:00 Welcome drinks will be served in the square, "Torvet".
Free to explore the museum. The brewery will be open for tasting local beer.

20:00 Conference dinner.
See the map below for the locations of “Torvet” and the brewery.



Map of the conference dinner location

The Old Town, marker 2 on the map below, is about 1.5 km from the Congress Centre (marker 1).



**Wednesday 29^t
August
18:00**

**Thursday 30th
August
09:00-14:00**

programme
thursday
a.m.

THURSDAY 30TH AUGUST

09:00	PL-4: Spin excitations and interactions on superconductors – probed and manipulated with a scanning tunneling microscope Katharina Franke , Freie Universität Berlin		
10:00	Coffee Break		
	KONGRES SAL	NORTVEGIA	DANIA
	Chair: Clemens Barth	Chair: Kazuyuki Sakamoto	Chair: Andrew Cassidy
10:30	CAT-CT-THU-17 Composition and morphology changes of Al ₂ O ₃ and CeO ₂ supported Rh and Co catalysts during preparation Albert Oszkó , University of Szeged Varga, Erika; Erdőhelyi, András; Baán, Kornélia; Kónya, Zoltán; Kiss, János	NPS-IT-THU-1 Strong Coupling between Surface Phonon-Polaritons and Surface Plasmon-Polaritons Christian Huck , Heidelberg University Tschoppe, Michael; Neubrech, Frank; Pucci, Annemarie	COR-CT-THU-1 Corrosion Behaviour of Tantalum Implanted with Argon and Nitrogen Ions Amir Hoshang Ramezani , Islamic Azad University Sari, Amir Hosein
10:50	CAT-CT-THU-18 Role of Rhodium in RhPt catalysts for ammonia oxidation revealed by operando STM and AP-XPS Oleksii Ivashenko , University of Oslo Sjåstad, Anja O.		COR-CT-THU-2 Development of Inhibitor Containing Smart Corrosion Protective Coatings Linda Wu , Singapore Institute of Manufacturing Technology Yan, Wenjin; Wijesinghe, Sudesh
11:10	CAT-CT-THU-19 Bending vibration-driven activation of CO ₂ on Cu surfaces Jiaimei Quan , University of Tsukuba Kondo, Takahiro; Mogi, Tomoyasu; Imabayashi, Takumi; Nakamura, Junji	NPS-CT-THU-2 Controlled Switching between Plasmonic and Molecular Luminescence at the Nanoscale Koen Lauwaet , IMDEA-Nanoscience Martín-Jiménez, A.; Granados, D.; Miranda, R.; Otero, R.	COR-CT-THU-3 Ageing of silver fractals nanostructures induced by atmospheric corrosion Nouari Kebaili , University Paris Sud Lion, Julie; Sarfati, Alain; Brennan, Jack; McLaren, Donald
11:30	CAT-CT-THU-20 Self-sustained reaction oscillations in a new light Uta Hejral , Lund University	NPS-CT-THU-3 Functional plasmonic nanostructures obtained from helium droplet synthesis Florian Lackner , Graz University of Technology Schiffmann, A.; Lasserus, M.; Messner, R.; Schnedlitz, M.; Fitzek, H.; Pölt, P.; Knez, D.; Hofer, F.; Ernst, W. E. 	SCR-CT-THU-18 Vibronic and chemical properties of supported single metal atom catalysts Erik Vesselli , Università degli Studi di Trieste Corva, M.; Ferrari, A.; Rinaldi, M.; Mohamed, F.; Feng, Z.; Roiaz, M.; Rameshan, C.; Skala, T.; Rupprechter, G.; Pastore, G.; Comelli, G.; Seriani, N.
11:50	CAT-CT-THU-21 Ammonia Oxidation Over Model Pd and PtRh catalysts Andrea Resta , Synchrotron Soleil Vlad, A.; Garreau, Y.; Coati, A.; Hejral, U.; Lundgren, E.	NPS-CT-THU-4 Chiral plasmonic nanocommas Vladimir E. Bochenkov , Lomonosov Moscow State University Sutherland, Duncan S.	SCR-CT-THU-19 Why silicon dioxide is needed to grow GaAs nanowires on Si(111) by Vapor-Liquid-Solid method using Ga as catalyst Louise Fouquat , Institut des Nanotechnologies de Lyon Guan, Xin; Vettori, Marco; Penuelas, José; Grenet, Geneviève
12:10	CAT-CT-THU-22 Strong metal-support interaction: A case study on TiO _x /Pt(111) for CO oxidation Mingshu Chen , Xiamen University Li, Huan; Weng, Xuefei; Ding, Ding; Zhang, Hong; Wan, Huillin	NPS-CT-THU-5 CD sensing using HMCL fabricated plasmonic nano-particles Gunnar Klös , iNANO, Aarhus University Sutherland, Duncan S.	SCR-CT-THU-20 Rotation of (C ₇₀) _m -(Au) _n Clusters on Au(111) Yitao Wang , University of Birmingham
12:30	Lunch Break		

KONGRES SAL		Chair: Richard Balog	09:00
SUECIA		10:00	
ROOM 12			
MOL-IT-THU-24 On-surface synthesis and electronic structure of surface-supported molecular networks Sabine Maier , Friedrich-Alexander-University Erlangen-Nürnberg	WAT-CT-THU-11 Water in Confinement: a Spectroscopic Study of D ₂ O Nano Clusters on a Graphene-Iridium Moiré Superstructure Heshmat Noei , DESY Gleißner, Robert; Creutzburg, Marcus; Stierle, Andreas	10:30	
	WAT-CT-THU-12 Anomalous transport of water in nanotubes Lyderic Bocquet , Ecole Normale Supérieure and CNRS	10:50	
MOL-CT-THU-25 Electronic and conducting properties of on N-heterocyclic carbenes on Au Hector Vazquez , Inst. of Physics, Acad. Sciences of the Czech Republic	WAT-IT-THU-13 Ice, ice maybe? Angelos Michaelides , University College London	11:10	
	MOL-CT-THU-26 Atomic scale structure, electronic and vibrational properties of one-dimensional sp-sp ² carbon-based nanostructures Francesco Tumino , Politecnico di Milano Rabia, A.; Russo, V.; Milani, A.; Li Bassi, A.; Achilli, S.; Fratesi, G.; Onida, G.; Manini, N.; Trioni, M. I.; Sun, Q.; Yuan, C.; Xu, W.; Casari, C. S.	11:30	
MOL-CT-THU-27 Electronic states of Porphyrins at surfaces: The signature of supramolecular network formation Osman Baris Malcioglu , University of Salzburg Bechis, Irene; Bockstedte, Michel	WAT-CT-THU-14 Water surface wetting at very first stages of deposition: quantification and interactions Céline Dablemont , Université Paris Sud Houdoux, David; Houplin, Justine; Amiaud, Lionel; Lafosse, Anne	11:50	
MOL-CT-THU-28 Electronic imprint of closed shell adsorbates in 2D quantum well arrays: nano - "Pillow effect" Olha Popova , University of Basel Björk, Jonas; Ahsan, A.; Mousavi, F.; Stöhr, Meike; Gade, Lutz H.; Lobo-Checa, Jorge; Jung, Thomas A.	WAT-CT-THU-15 Probing interfacial water and hydration at submolecular level Ying Jiang , Peking University	12:10	
		12:30	

-  EPS Poster Prize Candidate
-  ECOSS Prize Candidate
-  EPS Student Travel Grant Winner
-  Carlsberg Foundation Student Travel Grant Winner

See page 52 for the programme for the Satellite Meeting: Villum Centre of Excellence for Dirac Materials

Thursday 30th August

14:00-16:30

KONGRES SAL		NORTVEGIA	DANIA	SUECIA	ROOM 12
Chair: Albert Bruix	Chair: Duncan Sutherland	Chair: Eva Rauls	Chair: Sabine Maier	Chair: Francois Dulieu	
14:00 CAT-CT-THU-23 A Near-Ambient Pressure XPS Study of the CO Oxidation Reaction over Pt(111) and ZnO nanofilms epitaxied on Pt(111) Alter Zakhtser , Sorbonne Université <i>Liu, Hang; Naitabdi, Ahmed; Salzemann, Caroline; Rochet, François; Petit, Christophe</i>	NPS-IT-THU-6 Chemical Applications of Nanophotonic: Probing the Structure of Soft Matter with Chiral Nanostructures Malcolm Kadodwala , University of Glasgow	SCR-CT-THU-21 Detecting carbon in or on palladium nanoparticles by analyzing the work function Henrik Grönbeck , Chalmers University of Technology <i>Barth, Clemens</i>	MOL-IT-THU-29 Molecular nanoarchitectures from on-surface reactions and assembly Jennifer MacLeod , Queensland University of Technology (QUT)	SAC-IT-THU-1 Measurements of activation energies for diffusion of hydrogen atom on pure CO solid Naoki Watanabe , Hokkaido University <i>Kimura, Yuki; Tsuge, Masashi; Kouchi, Akira; Pirronello, Valerio</i>	14:00
14:20 CAT-CT-THU-24 Steps and Catalytic Reactions: CO Oxidation with Preadsorbed O on Rh(553) Chu Zhang , Lund University <i>Wang, B. C.; Shipilin, M.; Schaefer, A.; Merte, L. R.; Blomberg, S.; Wang, X. T.; Carlsson, P. A.; Hellman, A.; Gustafson, J.</i>		SCR-CT-THU-22 Dynamics of proton transfer reactions on Si(001) Tamam Bohamud , Philipps-Universität Marburg <i>Reutzel, Marcel; Dürr, Michael; Höfer, Ulrich</i>			14:20
14:40 CAT-CT-THU-25 The role of oxides for CO oxidation over Pd and Rh, and how to deal with oxygen poisoning Johan Gustafson , Lund University <i>Balmer, Olivier; Zhang, Chu; Shipilin, Mikhail; Schaefer, Andreas; Hagman, Benjamin; Merte, Lindsay R.; Martin, Natalia M.; Carlsson, Per-Anders; Jankowski, Maciej; Crumlin, Ethan J.; Lundgren, Edvin</i>	NPS-CT-THU-7 Nature-inspired all-in-one platform to avoid the persistence of metal nanoparticles in cancer theranostics Valerio Voliani , Istituto Italiano di Tecnologia <i>Cassano, Domenico; Mapanao, Ana-Katrina; Pocovi-Martínez, Salvador</i>	SCR-CT-THU-23 Bridging the gaps: imaging reaction dynamics by environmental microscopies Cédric Barroo , Université Libre de Bruxelles <i>Wang, Zhu-Jun; De Decker, Yannick; Visart de Bocarmé, Thierry; Willinger, Marc-Georg</i>	MOL-CT-THU-30 Chirality-induced spin selectivity in electron transmission through self-assembled layers of PNA Paul Möllers , Westfälische Wilhelms-Universität Münster <i>Nürenberg, Daniel; Kettner, Matthias; Tassinari, Francesco; Markus, Tal; Ulku, Selma; Achim, Catalina; Naaman, Ron; Zacharias, Helmut</i>	SAC-CT-THU-2 Simulations of energy dissipation and non-thermal desorption on amorphous solid water Herma Cuppen , Radboud University <i>Fredon, Adrien</i>	14:40
15:00 CAT-CT-THU-26 O ₂ activation and low temperature CO oxidation at the metal-oxide interface Yun Liu , Fritz-Haber Institute, Berlin <i>Bao, Xinhe</i>	NPS-CT-THU-8 Size-dependent electronic structure of Au nanoparticles Kazuyuki Sakamoto , Chiba University <i>Suda, Yuki; Iwaoka, Mutsuki; Yamamoto, Isamu; Fujii, Jun; Yamazoe, Seiji</i>	SCR-CT-THU-24 Relaxation pathways in ultra-thin, spontaneously polarised molecular glasses Andrew Cassidy , Aarhus University <i>Jørgensen, Mads R. V.; Glavic, Artur; Steffen, Alexandra C.; Lauter, Valeria; Field, David.</i>	MOL-CT-THU-31 Talk withdrawn, now a poster with ID: MOL-P-140	SAC-CT-THU-3 Surface science investigations of small aromatic molecules in astrophysical ices Tara Salter , University of Sussex <i>Stubbing, James; Brigham, Lorna; Brown, Wendy</i>	15:00
15:20 CAT-CT-THU-27 A detailed picture of CO oxidation on metal surfaces revealed by ambient pressure x-ray photoelectron spectroscopy Jan Knudsen , Lund University <i>Johansson, N.; Andersen, M.; Gallo, T.; Boix, V.; Shavorskiy, A.; Zhu, S.; Cavalca, F.; Monya, Y.; Andersen, J. N.; Kondoh, H.; Shnadt, J.</i>	NPS-CT-THU-9 Influence of the palladium amount on the ordering, final size, and composition of Pd-Au nanoparticle arrays Aude Bailly , CNRS, Institut Néel <i>Sitja, Georges; Saint-Lager, Marie-Claire; Le Moal, Séverine; Leroy, Frédéric; De Santis, Maurizio; Henry, Claude R.; Robach, Odile</i>	SCR-CT-THU-25 Surface Analysis with Molecular Techniques: fast molecular diffraction from KCl(001) at grazing incidence conditions Marcos del Cueto , Universidad Autónoma de Madrid <i>Muzas, Alberto S.; Martín, Fernando; Díaz, Cristina</i>	MOL-CT-THU-32 Engineering topological states in arrays of magnetic molecules through interaction with a 2D superconductor Daniilo Longo , Institut de NanoSciences de Paris (INSP) - Sorbonne Université <i>Brun, C.; Cruguel, H.; Royer, S.; Palacio-Morales, A.; Debontridder, F.; David, P.; Witkowski, N.; Cren, T.</i>	SAC-CT-THU-4 Talk Withdrawn	15:20
15:40 CAT-CT-THU-28 New insights from studies of Pd single crystals during CO oxidation in a stagnation flow Jianfeng Zhou , Lund University <i>Matera, Sebastian; Pfaff, Sebastian; Blomberg, Sara; Lundgren, Edvin; Zetterberg, Johan</i>	NPS-CT-THU-10 Ultra-thin h-BN films employed as STEM substrates for nanoscale plasmon spectroscopy Alexander Schiffmann , Graz University of Technology <i>Knez, Daniel; Lackner, Florian; Lasserus, Maximilian; Messner, Roman; Schnedlitz, Martin; Hofer, Ferdinand; Ernst, Wolfgang E.</i>	SCR-CT-THU-26 Step edge adhesion of Co-Salen on a bulk NaCl (100) surface Rasmus Jakobsen , University College London <i>Gao, David; Schwarz, Alexander; Shluger, Alexander; Wiesendanger, Roland</i>	MOL-CT-THU-33 Switching and electronic properties of switchable azobenzene derivatives on HOPG Khushboo Yadav , IIT Kanpur <i>Halbritter, Thomas; Heckel, Alexander; Thiruvancheril, G. Gopakumar</i>	SAC-CT-THU-5 XUV induced desorption from carbon containing interstellar ice analogues John Thrower , Westfälische Wilhelms-Universität Münster <i>Suhasaria, Tushar; Frigge, Robert; Roling, Sebastian; Bertin, Mathieu; Michaut, Xavier; Fillion, Jean-Hugues; Zacharias, Helmut</i>	15:40
16:00 Coffee Break					16:00

- 2DM** 2D materials
CAT Heterogeneous catalysis
COR Corrosion and anti-corrosive coatings
ELC Electrochemistry on surfaces
ENM Energy materials
MOL Organic molecules and molecular architectures on surfaces
NAM Novel advancements in theoretical and experimental methods
NPS Functional surface nanostructures, plasmonics and sensors
OXI Oxide surfaces and thin films
SAC Surface astrochemistry
SCR Surface adsorption, desorption, diffusion and reactions
SEM Semiconductor surfaces
SMI Surface magnetism and interfacial superconductivity
UES Ultrafast dynamics and electronic structure
WAT Water on surfaces
-  EPS Poster Prize Candidate
 ECOSS Prize Candidate
 EPS Student Travel Grant Winner
 Carlsberg Foundation Student Travel Grant Winner

**Thursday 30th
August
16:30-18:30**

programme
thursday
p.m.

KONGRES SAL		NORTVEGIA	DANIA	SUECIA	ROOM 12
Chair: Jan Knudsen	Chair: Malcolm Kadodwala	Chair: Katharina Doblhoff-Dier	Chair: Mingdong Dong	Chair: Herma Cuppen	
16:30 CAT-IT-THU-29 The role of supported metal nanoclusters and ions in thermal and photoinduced catalytic reactions János Kiss , University of Szeged	NPS-CT-THU-11 Role of Molarity Fraction on Uniform Silicon Nanowires Fabricated by Metal-Assisted Chemical Etching Gamolwan Tumcharern , National Nanotechnology Center (NANOTEC), National Science and Technology Development Agency <i>Pimring, C.; Klamchuen, A.; Wongwiriyapan, W.</i>	SCR-CT-THU-27 Solid state wetting and relaxation of nanorelief as patterns of super-fast processes on solid surfaces Vladimir Samsonov , Tver State University <i>Bembel, Alexey G.; Talyzin, Igor V.; Vasilyev, Sergey A.</i>	MOL-IT-THU-34 On-Surface Precise Chemistry Lifeng Chi , Soochow University	SAC-IT-THU-6 Structure and Reactivity of Interstellar Nanodust Stefan Bromley , University of Barcelona / ICREA	16:30
16:50	NPS-CT-THU-12 Investigation of Surface-near Charge Carrier Transport in Depleted GaAs Nanowires Peter Kleinschmidt , Technische Universität Ilmenau <i>Nägelein, A.; Steidl, M.; Hannappel, T.</i>	SCR-CT-THU-28 Solid-liquid interfacial energy in two-component metallic systems – molecular dynamic study Vadim Korolev , Lomonosov Moscow State University <i>Samsonov, Vladimir; Protsenko, Pavel</i>			16:50
17:10 CAT-CT-THU-30 STM Study of Nano-Sized ZnO on Cu(111) Djuro Bikaljevic , University of Innsbruck <i>Rameshan, R.; Köpfle, N.; Klötzer, B.; Memmel, N.</i>	NPS-CT-THU-13 Tailoring the thermodynamic stability and reflectance in Mo/Si multilayer mirrors by rubidium incorporation Cristina Sfiligoj , Advanced Research Center for Nanolithography <i>Saeidi, Amirmehdi; Verhoeven, Jan; Frenken, Joost Chernyshikhin, Stanislav</i>	SCR-CT-THU-29 Direct measurements of free surface energy in two-component solid metallic systems Sergei Zhevnenko , National University of Science and Technology MISIS <i>Zhevnenko, Sergey; Korolev, Vadim; Maslakov, Konstantin</i>	MOL-CT-THU-35 Chemoselective Hierarchical Dehalogenation: 4-Bromo-3"-iodo-p-terphenyl on the Cu(111) Surface Andre Schirmeisen , Justus-Liebig University Giessen <i>Ebeling, D.; Zhong, Q.; Schlöder, T.; Henkel, P.; Ahles, S.; Chi, L.; Wegner, H. A.; Mollenhauer, D.</i>	SAC-CT-THU-7 Interstellar Catalysis of Molecular Hydrogen through Superhydrogenation of Polycyclic Aromatic Hydrocarbons Frederik Simonsen , Aarhus University <i>Jensen, Pernille; Skov, Anders; Hornekær, Liv</i>	17:10
17:30 CAT-CT-THU-31 Simultaneous Study of Catalyst Structure, Gas Phase and Morphology Sebastian Pfaff , Lund University <i>Zhou, J.; Hejral, U.; Albertin, S.; Shipilin, M.; Gustafsson, J.; Blomberg, S.; Lundgren, E.; Zetterberg, J.</i>	NPS-CT-THU-14 Talk withdrawn.	SCR-CT-THU-30 Cu-Ag binary system revised: wettability, surface composition, thermodynamics of phase boundaries Pavel Protsenko , Lomonosov Moscow State University <i>Zhevnenko, Sergey; Korolev, Vadim; Maslakov, Konstantin</i>	MOL-CT-THU-36 Fast conductance switching of triazatruxene molecules on Ag(111) controlled by hydrogen bonding Anja Bauer , University Konstanz <i>Maier, Markus; Schosser, Werner; Erler, Philipp; Dedkov, Yuriy; Winter, Rainer; Pauly, Fabian; Fonin, Mikhail</i>	SAC-CT-THU-8 Stable Structures and Alternative Paths on the Road to SuperHydrogenated Coronene Mirko Leccese , Università degli Studi di Milano <i>Jensen, Pernille A.; Simonsen, Frederik D. S.; Skov, Anders W.; Hornekær, Liv; Martinazzo, Rocco</i>	17:30
17:50 CAT-CT-THU-32 Talk withdrawn.	NPS-CT-THU-15 Metal ion porphyrin inhibition of mutant huntingtin aggregation under photoirradiation Yongxiu Song , Aarhus University <i>Zhang, Zhefei; Wang, Zegao; Bortolini, Christian; Liu, Lei; Dong, Mingdong</i>	SCR-CT-THU-31 Surface Defects on Cu(111): A combined STM & DFT Study Killian Walshe , Trinity College Dublin <i>Bozhko, S.; Walls, B.; Zhussupbekov, K.; O'Regan, D. D.; Shvets, I. V.</i>	MOL-CT-THU-37 Delocalized vs localized excitations in the photoisomerization of azobenzene-functionalized alkanethiolate SAMs Cornelius Gahl , Freie Universität Berlin <i>Brönisch, Wibke; Moldt, Thomas; Boie, Larissa; Weinelt, Martin</i>	SAC-CT-THU-9 Superhydrogenation of pentacene: the role of zigzag-edges in H ₂ formation Dario Campisi , Leiden University <i>Skødt Simonsen, F. D.; Candian, A.; Martinazzo, R.; Hornekær, L.; Tielen, A. G. G. M.</i>	17:50
18:10 CAT-CT-THU-33 A single and robust process for the production of a versatile family of nanorattle catalysts composed by naked nanoparticles comprised in silica nanocapsules Valerio Voliani , Istituto Italiano di Tecnologia <i>Pocovi-Martínez, Salvador; Cassano, Domenico</i>	NPS-CT-THU-16 Amorphous carbon functionalised with silver nanoparticles based on metalorganic precursor for electrochemical detection of para-nitrophenol Maxime Puyo , CNRS - LCC, Université de Toulouse <i>Lebon, Emilie; Kahn, Myrtil; Fau, Pierre; Launay, Jérôme; Mesguich, David; Fajerwerg, Katia</i>	SCR-CT-THU-32 Comparative reactivity of Bi ₂ Te ₃ , Sb ₂ Te ₃ , (Sb,Bi) ₂ Te ₃ topological insulators Andrey Vol'ykhov , Lomonosov Moscow State University <i>Sirotnina, Anna P.; Batuk, Maria; Callaert, Carolien; Hadermann, Joke; Vladimirova, Nadezhda V.; Knop-Gericke, Axel; Yashina, Lada V.</i>	MOL-CT-THU-38 Molecular Maracas: Investigating the potential of Li@C60 as a multi-state molecular switch Henry Chandler , University of St Andrews <i>Nanoh, S. Abass; Stefanou, Minas; Campbell, Eleanor E. B.; Schaub, Renald</i>	SAC-CT-THU-10 The role of PAHs in the formation of H ₂ in the interstellar medium Rijutha Jaganathan , Aarhus University <i>Campisi, Dario; Palotas, Julianna; Cassidy, Andrew; Hornekær, Liv</i>	18:10

-  EPS Poster Prize Candidate
-  ECOSS Prize Candidate
-  EPS Student Travel Grant Winner
-  Carlsberg Foundation Student Travel Grant Winner

See page 52 for the programme for the Satellite Meeting: Villum Centre of Excellence for Dirac Materials

FRIDAY 31ST AUGUST

09:00	PL-5: Quantum materials: a new direction of surface science Jinfeng Jia , Shanghai Jiao Tong University
10:00	Coffee Break
10:30	PL-6: A molecular view of heterogeneous Catalysis Jens Nørskov , Technical University of Denmark
11:30	Prize Ceremony
12:00	Close of Conference

FRIDAY AFTERNOON EXCURSIONS

Buses depart from the front of the Scandinavian Congress Centre at 12:30 for those who have signed up for the excursions to Legoland, the Lego House and the Moesgaard Museum.

Full details of the excursions can be found on the conference website.

SATURDAY 1ST SEPTEMBER

Workshop for Young Scientists: Scientific Survival Skills

10:00-16:00

For those who have signed up for this workshop, this will take place in building 1525, room 626 at Aarhus University. (Marker 3 on the map on page 23). Details of how to get to Aarhus University from the city centre can be found on the conference website.

This workshop will address key questions and issues essential to the professional development of young scientists at the beginning stages of their career. Participants will receive basic advice and mentorship through a series of lectures and group activities aimed to develop skills—referred to as soft professional skills—beyond those needed for science that are so often overlooked.

KONGRES SAL

KONGRES SAL

Chair: Jill Miwa	09:00
	10:00
Chair: Bjørk Hammer	10:30
	10:50
	11:10



Aarhus Festival
31.08.—09.09.2018 **Bridging**

Aarhus Festival Week

The week-long Aarhus Festival will open on Friday the 31st of August.

Aarhus Festival has been an annual event since 1965, showcasing local, national and international artists. Through the years the Festival has been a great success and has grown into one of the largest cultural events in Scandinavia, celebrating its 50th anniversary in 2014. Aarhus Festival has HM Queen Margrethe II as a patron and she will officially open the Festival in the evening of the 31st of August.

The programme for the festival can be found here:

<https://aarhusfestuge.dk/en/>

2DM	2D materials
CAT	Heterogeneous catalysis
COR	Corrosion and anti-corrosive coatings
ELC	Electrochemistry on surfaces
ENM	Energy materials
MOL	Organic molecules and molecular architectures on surfaces
NAM	Novel advancements in theoretical and experimental methods
NPS	Functional surface nanostructures, plasmonics and sensors
OXI	Oxide surfaces and thin films
SAC	Surface astrochemistry
SCR	Surface adsorption, desorption, diffusion and reactions
SEM	Semiconductor surfaces
SMI	Surface magnetism and interfacial superconductivity
UES	Ultrafast dynamics and electronic structure
WAT	Water on surfaces

	EPS Poster Prize Candidate
	ECOSS Prize Candidate
	EPS Student Travel Grant Winner
	Carlsberg Foundation Student Travel Grant Winner

SATELLITE MEETING PROGRAMME

Molecular Reaction on Surfaces (MRS)

All talks for the satellite meeting will be held in Conference Room 11, plenary talks at 09:00 are held in the Kongres Sal.

MONDAY 27 TH AUGUST	
08:45	Welcome
09:00	PL-1: Atomically-Resolved Oxide Surfaces: Lessons Learned, Surprises Encountered, Challenges Posed Ulrike Diebold , TU Wien/Institute of Applied Physics
10:00	Coffee Break ROOM 11 Chair: Lifeng Chi
10:30 MRS-IT-MON-1 Steering Surface Reactions with Molecular Assembly Strategy Kai Wu , Peking University	
11:10	MRS-IT-MON-2 Charge Transport through on-surface synthesized oligomers Nian Lin , The Hong Kong University of Science and Technology <i>Kuang, Guowen; Chen, Shi-Zhang; Chen, Keqiu; Zhang, Qiushi</i>
11:50	MRS-IT-MON-3 On-surface synthesis of cyclic and open-chain carbon-based nanomaterials Michael Gottfried , University of Marburg
12:30	Lunch Break ROOM 11 Chair: Wei Xu
14:00	MRS-IT-MON-4 On surface dynamic covalent chemistry Dong Wang , Chinese Academy of Sciences

ROOM 11	
14:40	MRS-IT-MON-5 1D constrained surface reactions on anisotropic Au(110) Dingyong Zhong , Sun Yat-sen University
15:20	MRS-IT-MON-6 CO ₂ -induced Reversible Structure Transition between Sierpiński Triangles and Chains on Au(111) Yongfeng Wang , Peking University
16:00	Coffee Break ROOM 11 Chair: Michael Gottfried
16:30	MRS-IT-MON-7 Visualizing interfacial ion hydration and transport at molecular level Ying Jiang , Peking University
17:10	MRS-IT-MON-8 Epitaxial Growth and Functionalization of 2D Materials & Heterostructures Yeliang Wang , Chinese Academy of Sciences
17:50	MRS-IT-MON-9 Hydrogen bonds modulated molecular self-assembly and on-surface reactions Junfa Zhu , University of Science and Technology of China <i>Wang, Tao; Tao, Zhijie; Feng, Lin; Huang, Jianmin</i>
18:30 to 20:00	Poster Session 1 and Exhibition

TUESDAY 28 TH AUGUST	
09:00	PL-2 Probing Surface Catalysis in Real Time Anders Nilsson , Stockholm University
10:00	Coffee Break ROOM 11 Chair: Dong Wang
10:30	MRS-IT-TUE-10 On-Surface Synthesis – Chemistry in 2D Roman Fasel , Empa, Swiss Federal Laboratories for Materials Science and Technology
11:10	MRS-IT-TUE-11 Elementary phenomena in hybrid graphene nanoribbons on surfaces Jose Pascual , CIC nanoGUNE <i>Carbonell, E.; Li, J.; Merino, N.; Hieulle, J.; Friedrich, N.; Corso, M.; Peña, D.; De Oteyza, D. G.</i>
11:50	MRS-IT-TUE-12 Direct formation of C-C double and triple bonded structural motifs by on-surface dehalogenative homocoupling reactions Wei Xu , Tongji University
12:30	Lunch Break ROOM 11 Chair: Yeliang Wang
14:00	MRS-IT-TUE-13 Recent Advances in Terminal Alkyne On-Surface Chemistry: Novel reactions and unprecedented mechanism Yiqi Zhang , Technical University Munich <i>Painner, Tobias; Du, Ping; Björk, Jonas; Zhang, Liding; Lin, Tao; Chen, Zhi; Klyatskaya, Svetlana; Paszkiewicz, Mateusz; Hellwig, Raphael; Uphoff, Martin; Palma, Carlos A.; Ruben, Mario; Seitsonen, Ari P.; Barth, Johannes V.; Klappenberg, Florian</i>
14:40	MRS-CT-TUE-14 Dehalogenative homocoupling: formation of cumulene units and benefits of H-dosing Mihuela Enache , University of Groningen <i>Tran, B. V.; Pham, T. A.; Sun, Q.; Cai, L.; Ma, H.; Yu, X.; Yuan, C.; Xu, W.; Grunst, M.; Kivala, M.; Stöhr, M.</i>

15:00	MRS-CT-TUE-15 Controllable Synthesis of cis-Enediyne Trimer, Graphdiyne and Graphyne Nanowires on a Ag(111) Surface Tao Wang , University of Science and Technology of China <i>Junfa, Zhu</i>
15:20	MRS-CT-TUE-16 Enantioselective covalent coupling reactions on the chiral PdGa{111} surfaces Samuel Stoltz , EMPA <i>Gröning, Oliver; Brune, Harald; Widmer, Roland</i>
15:40	MRS-CT-TUE-17 Self-Assembly in Enantioselective Surface Reactions Peter McBreen , Laval University <i>Dong, Y.; Zeng, Y.; Zhang, T.; Zhang, X.; Groves, M. N.</i>
16:00	Coffee Break ROOM 11 Chair: Kai Wu
16:30	MRS-IT-TUE-18 Quantum nutcracker for near-room-temperature hydrogen dissociation Shixuan Du , Chinese Academy of Sciences
17:10	MRS-CT-TUE-19 Chemical reactions on nanostructured supported graphene analyzed by DFT calculations Michele Pisarra , Universidad Autónoma de Madrid <i>Díaz, C.; Navarro, J. J.; Ortega, B. Nieto; Villalva, J.; Calleja, F.; Miranda, R.; Pérez, E. M.; Vázquez de Parga, A. L.; Martín, F.</i>
17:30	MRS-CT-TUE-20 The TESLA JT SPM Markus Maier , Scientia Omicron <i>Stahl, D.; Pirou, A.; Fenner, M.; Roth, T.</i>
17:50	MRS-IT-TUE-21 Long-range Ordered Cycloaddition with Graphene Reversibly Switched by UV Irradiation Miao Yu , Harbin Institute of Technology <i>André Gourdon, Lev Kantorovich, Xueming Yang, Flemming Besenbacher</i>
18:30 to 20:00	Poster Session 2 and Exhibition

SATELLITE MEETING PROGRAMME

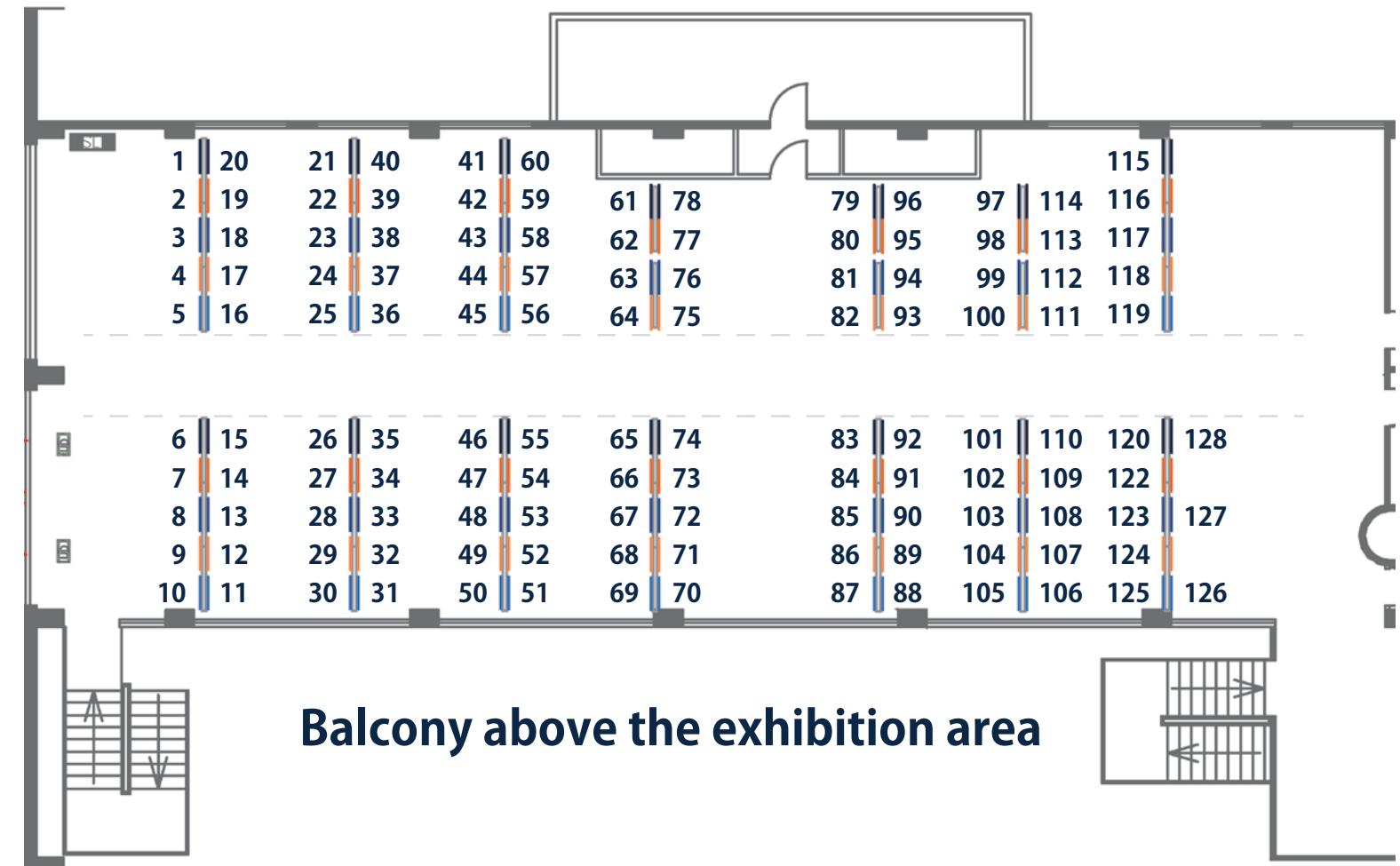
Villum Centre of Excellence for Dirac Materials

All talks for the satellite meeting will be held in Conference Room 11, the plenary talk will be held in the Kongres Sal.

THURSDAY 30 TH AUGUST	
09:00	PL-4 Spin excitations and interactions on superconductors – probed and manipulated with a scanning tunneling microscope Katharina Franke , Freie Universität Berlin
10:00	Coffee Break
	ROOM 11
10:30	Chair: Martin Bremholm CDM-CT-THU-1 The VILLUM Centre of Excellence for Dirac Materials Philip Hofmann , Aarhus University
10:50	CDM-IT-THU-2 Observing electronic structure of two-dimensional materials in real space and ultrafast time domains Søren Ulstrup , Aarhus University
11:30	CDM-IT-THU-3 Crucial Impact of Substrate Effects on Epitaxially Prepared 2D Transition Metal Dichalcogenides Charlotte Sanders , Aarhus University
12:30	Lunch Break

ROOM 11	
14:00	Chair: Søren Ulstrup CDM-IT-THU-4 Computational modeling and discovery of two-dimensional materials and vdW heterostructures Kristian Sommer Thygesen , Technical University of Denmark
14:40	CDM-IT-THU-5 Crystal Growth and Characterization of Layered Materials Martin Bremholm , Aarhus University Levy, Simone M.; Wollesen, Laura; Nielsen, Christina B.; Dalgaard, Kirstine J.; Hansen, Mads F.
15:20	CDM-IT-THU-6 Dirac Materials for Dark Matter Detection Alfredo Davide Ferella , Stockholm University Geilhufe, R. Matthiam; Olsthoorn, Bart; Koski, Timo; Kahlhoefer, Felix; Conrad, Jan; Balatsky, Alexander V.
16:00	Coffee Break
	ROOM 11
16:30	Chair: Philip Hofmann CDM-IT-THU-7 Topological superconductor and Majorana fermions in the vortex Jinfeng Jia , Shanghai Jiao Tong University
17:10	CDM-IT-THU-8 Organic Dirac Materials Alexander Balatsky , Nordita
17:50	CDM-CT-THU-9 Reconciling the contradicting picture of the band structure of Si:P δ-layers Jill Miwa , Aarhus University Mazzola, Federico; Chen, Chin-Yi; Rahman, Rajib; Zhu, Xie-Gang; Polley, Craig; Balasubramanian, Thiagarajan; Hofmann, Philip; Wells, Justin

POSTER BOARDS LAYOUT



Layout updated 25th August

POSTERS Monday and Tuesday 18:30-20:00



Indicates if the poster presentation is eligible
for the EPS Poster prize

2DM	2D Materials	Board
2DM-P-23	Investigation of the influence of inter-layer coupling strength on exciton binding energies in bulk ReX_2 compounds Ji-ho Kim , Yonsei University Co-Authors: Kim, Beom seo; Park, Seung Ryong; Kim, Changyoung; Lyo, In-Whan	1
2DM-P-24	Electron-phonon coupling and atom-surface interaction of topological insulators from helium atom scattering Wolfgang E. Ernst , Graz University of Technology Co-Authors: Tamtögl, Anton; Pusterhofer, Michael; Kraus, Patrick; Benedek, Giorgio; Bianchi, Marco; Hofmann, Philip; Ellis, John; Allison, William	2
2DM-P-25	Ultrafast Dynamics of Single Layer TaS_2 Federico Andreatta , Aarhus University Co-Authors: Rostami, Habib; Grubišić-Čabo, Antonija; Biswas, Deepnarayan; Sanders, Charlotte E.; Bianchi, Marco; Cacho, Cephise; Jones, Alfred; Chapman, Richard T.; Springate, Emma; King, Phil D. C.; Miwa, Jill A.; Ulstrup, Søren; Balatsky, Alexander; Hofmann, Philip	3
2DM-P-26	Graphene formation by electron beam induced deposition. Fernando José Bonetto , CONICET, Universidad Nacional del Litoral Co-Authors: Silva, Carlos; Montoro, Silvia; Candia, Adriana; Passeggi, Mario; Vidal, Ricardo	4
2DM-P-27	Synthesis of graphene via two-step reduction of graphene oxide Kanishka De Silva , Toyota Technological Institute Co-Authors: Huang, Hsin-Hui; Suzuki, Seiya; Badam, Rajashekhar; Yoshimura, Masamichi	5
2DM-P-28	Two-dimensional layered double hydroxide/graphene materials for water remediation Hsin-Hui Huang , Toyota Technological Institute Co-Authors: Su, Liang-Wei; De Silva, Kanishka; Yoshimura, Masamichi	6
2DM-P-29	Preparation and characterisation of graphene-like carbon layer on h-BN nanomesh Adam Szitas , University of Szeged Co-Authors: Farkas, Arnold Peter; Faur, Viktoria; Kiss, Janos; Konya, Zoltan	7
2DM-P-30	Silicene formation on the Ag/Ni(111) surface Tsuneo Fukuda , Osaka City University Co-Authors: Sakamoto, S.; Umezawa, K.	8
2DM-P-31	Theoretical study on hydrogen atom behavior under graphene buffer layer grown on SiC substrate Jun Nara , National Institute for Materials Science Co-Authors: Yamasaki, Takahiro; Ohno, Takahisa	9
2DM-P-32	Atomic Structure of the In-Bi Bilayer on the Si(111) Surface Deng-Sung Lin , National Tsing Hua University Co-Authors: Lin, Cho-Ying; Huang, Yu-Zhang; Chen, Han-De	10

2DM-P-104	Ti ₃ C ₂ Tx MXene/polyaniline (PANI) sandwich intercalation structure composites constructed for microwave absorption Huawei Wei , Harbin Institute of Technology Co-Authors: Dong, Jidong; Fang, Xiaojiao; Zheng, Wenhui; Sun, Yutong; Qian, Yue; Jiang, Zaixing; Huang, Yudong	11
2DM-P-105	Experimental determination of thermal expansion of natural MoS ₂ Gloria Anemone , Universidad Autónoma de Madrid Co-Authors: Al Taleb, Amjad; Castellanos-Gomez, Andres; Farías, Daniel	12
2DM-P-106	Strain and ferroelectric soft-mode induced superconductivity in strontium titanate Kirsty Dunnett , Nordita Co-Authors: Narayan, A.; Spaldin, N. A.; Balatsky, A. V.	13
2DM-P-108	Structural, electronic and phononic properties of two-dimensional InBr, InI, TlCl and TlBr Sevil Sarikurt , Dokuz Eylül University Co-Authors: Ersan, Fatih	14
2DM-P-130	Oscillating valley splitting in a topological insulator heterostructure Craig Polley , MAX-IV Laboratory Co-Authors: Buczko, Ryszard; Forsman, Alexander; Dziawa, Piotr; Szczerbakow, Andrzej; Rechciński, Rafał; Kowalski, Bogdan J.; Story, Tomasz; Trzyna, Małgorzata; Bianchi, Marco; Grubišić Čabo, Antonija; Hofmann, Philip; Tjernberg, Oscar; Balasubramanian, Thiagarajan	15
2DM-P-131	Electronic properties of graphene on Ir(111) upon Pd intercalation Thomas Vincent , ESPCI Paris Co-Authors: Pons, S.; Fonin, M.; Dedkov, Y.; Voloshina, E.; Roditchev, D.; Vlaic, S.	16
CAT	Heterogeneous Catalysis	Board
CAT-P-1	The pH dependent Relationship of Catalytic Performance of Fe doped SnO ₂ Nanoparticles Jiwon Bae , Sookmyung Women's University Co-Authors: Lee, Hangil	17
CAT-P-2	Insights into catalytic oxidation of Fe-doped ZrO ₂ nanoparticles with modified electronic structure: pH dependence Jung A Hong , Sookmyung Women's University Co-Authors: Lee, Hangil	18
CAT-P-3	Structural and Chemical Study of CuZnO a Model Catalyst in Oxidising and Reducing Environment Eoghan Rattigan , Aarhus University Co-Authors: Rodríguez-Fernández, Jonathan; Lauritsen, Jeppe V.	19
CAT-P-4	Catalytic Properties of M-HMS Materials Khalida Chellal , University of Science and Technology Houari Boumediène Co-Authors: Bachari, Khaldoun; Sadi, Farida	20
CAT-P-5	Operando CXDI of a single PtRh alloy nanoparticle under catalytic reaction conditions Henning Runge , Deutsches Elektronen Synchrotron Co-Authors: Keller, Thomas F.; Abuín, Manuel; Kim, Young Yong; Gelisio, Luca; Dzhigaev, Dmitri; Lazarev, Sergej; Vonk, Vedran; Vartaniants, Ivan; Richard, Marie-Ingrid; Leake, Steven; Zhou, Thao; Stierle, Andreas	21

CAT-P-6	Oxidation of stepped Rh surfaces: PEEM and XPS studies Marek Trzciński , University of Science and Technology in Bydgoszcz Co-Authors: <i>Bukaluk, Antoni; Winkler, Philipp; Freytag, Clara; Stöger-Pollach, Michael; Bernardi, Johannes; Rupprechter, Günther; Suchorski, Yuri</i>	22	COR-P-98	Evaluation of Wettability and Anti-Erosion/Corrosion Properties of TiAlN-Si ₃ N ₄ Nano-Composite and TiAlN/TiN Nano-Multilayer Thin Films in Molten Aluminum Alloy Farhad Fazlali pour , Iran Radiator Co. Co-Authors: <i>Malahat, Niki Nushari</i>	33	
CAT-P-7	Wet chemical preparation of CeO ₂ (111) supported Au catalyst Jasmin-Mathelda Abdou , Karl-Franzens-Universität Graz Co-Authors: <i>Sterrer, Martin</i>	23	COR-P-116	Characterization and application of essential oil of Artemisia herba-alba as Green Corrosion Inhibitor for Aluminium in Hydrochloric Acid Solution. Dahmani-Hamzaoui Nacera , University Mouloud Mammeri, Tizi ouzou, Algerie	34	
CAT-P-8	Development of the ReaxFF Reactive Force-Field Description of Gold Oxides Ian Shuttleworth , Nottingham Trent University	24	COR-P-117	CVD graphene/Ni interface evolution in acidic media Luca Camilli , Danish Technical University Co-Authors: <i>Yu, Feng; Galbiati, Miriam; Bøggild, Peter; Yivlialin, Rossella; Duò, Lamberto; Bussetti, Gianlorenzo</i>	35	
CAT-P-9	Bismuth-Based Metal-Organic Frameworks for Electrocatalytic CO ₂ Conversion to Formate Paolo Lamagni , Aarhus University Co-Authors: <i>Miola, Hu, Xin-Ming; Matteo; Daasbjerg, Kim; Lock, Nina; Skrydstrup, Troels</i>	25	ELC	Electrochemistry on surfaces	Board	
CAT-P-10	Operando Surface X-ray Diffraction on Cobalt Single Crystal Model Catalyst for the Fischer-Tropsch Synthesis under Realistic Conditions Yohan Fuchs , Leiden University Co-Authors: <i>Wenzel, S.; Boden, D.; Prabhu, M.; Achour, H.; Carlà, F.; Groot, I.</i>	26	ELC-P-62	Solvothermal Growth of HKUST-1/Graphene Composite Films on Glassy Carbon Electrodes Paolo Lamagni , Aarhus University Co-Authors: <i>Pedersen, Birgitte Lodberg; Godiksen, Anita; Mossin, Susanne; Hu, Xinming; Pedersen, Steen Uttrup; Daasbjerg, Kim; Lock, Nina</i>	36	
CAT-P-99	Spectroscopic Analysis of Noble Metals doped TiO ₂ and ZnO Nanoparticles: Comparison of Catalytic Activities Song Min Im , Sookmyung Women's University Co-Authors: <i>Lee, Hangil</i>	27	ELC-P-63	Elucidation of the switching mechanism of atom switch based on electric measurement Akira Aiba , Tokyo Institute of Technology Co-Authors: <i>Kiguchi, Manabu</i>	37	
CAT-P-120	In Situ Scanning Tunneling Microscopy on ZnO(10-10) Sabine Wenzel , Leiden University Co-Authors: <i>Groot, Irene M. N.</i>	28	ELC-P-120	Relationship between electronic property and catalytic activity for oxygen reduction reaction of nitrogen-doped and non-doped structurally defected single-walled carbon nanotube electrocatalysts Koji Yokoyama , Tohoku University Co-Authors: <i>Sato, Yoshinori; Yamamoto, Masashi; Nishida, Tetsuo; Motomiya, Kenichi; Tohji, Kazuyuki; Sato, Yoshinori</i>	38	
CAT-P-121	Selective CO ₂ Reduction to CO in Water using Earth-Abundant Metal and Nitrogen-Doped Carbon Electrocatalysts Xinming Hu , Aarhus University Co-Authors: <i>Hval, Halvor H.; Pedersen, Steen U.; Skrydstrup, Troels; Daasbjerg, Kim</i>	29	ENM	Energy materials	Board	
CAT-P-128	CO oxidation on h-BN/Rh(111)-supported Pt nanoclusters Hamed Achour , Leiden University Co-Authors: <i>Harbich, Wolfgang; Brune, Harald</i>	30	ENM-P-96	Plasma-induced high-efficient preparation of heteroatom doped functional energy materials Shaobo Li , Aarhus University Co-Authors: <i>Dong, Lichun; Dong, Mingdong</i>	39	
CAT-P-129	Synthesis strategies for Co promoted MoS ₂ model hydrodesulfurization catalysts Mahesh Krishna Prabhu , Leiden University Co-Authors: <i>Stam, M.; van Vark, A. V.; Koskamp, C.; Hagedoorn, B.; Groot, I. M. N.</i>	31	ENM-P-97	Transition metal oxide coupled with 2D titanium carbide materials (MXene) as high performance electrode materials for energy storage Hanmei Jiang , Chongqing University Co-Authors: <i>Zheng, Xiaogang; Dong, Lichun; Dong, Mingdong</i>	40	
COR	Corrosion and anti-corrosive coatings			ENM-P-114	Highly Stable CoS ₂ -MoS ₂ /MXene as Efficient Electrocatalysts for Oxygen Evolution Reaction Xiaojiao Fang , Aarhus University Co-Authors: <i>Wang, Yin; Wang, Zegao; Li, Shaobo; Jiang, Zaixing; Dong, Mingdong</i>	41
COR-P-74	Photo-generated cathodic protection of mild carbon steel using electrophoretically deposited layers of TiO ₂ nanoparticles Ji Hoon Park , POSCO Co-Authors: <i>Park, Jong Myung</i>	32				

ENM-P-115	Synergetic photocatalytic nanostructures based on Au/TiO ₂ /reduced graphene oxide for efficient degradation of organic pollutants Liwei Zhao , Harbin Institute of Technology Co-Authors: Xu, Hongbo; Jiang, Bo; Huang, Yudong	42	MOL-P-39	Adsorption of Co- and Cu- phthalocyanines on Au(100) surfaces Eva Rauls , University of Stavanger Co-Authors: Ravndal, Arne	52
ENM-P-124	The influence of deposition temperature of n-type ALD buffer layer on device characteristics of electrodeposited Cu ₂ O thin film solar cells Jae Yu Cho , Chonnam National University Co-Authors: Man, Tran Hieu; Heo, Jaeyeong	43	MOL-P-40	Single-Molecule Charge Transport Properties of Endofullerene Haruna Cho , Tokyo Institute of Technology Co-Authors: Fujii, Shintaro; Kiguchi, Manabu; Hashikawa, Yoshifumi; Murata, Yasujiro	53
ENM-P-125	Deposition temperature controlled growth of tin monosulfide thin films for thin film solar cell application Jae Yu Cho , Chonnam National University Co-Authors: Lim, Dongha; Heo, Jaeyeong	44	MOL-P-41	Probing Enantioselective Processes on Chirally-Modified Model Systems Smadar Attia , Christian-Albrechts-Universität zu Kiel Co-Authors: Spadafora, Evan J.; Schmidt, Marvin C.; Schröder, Carsten; Schauermann, Swetlana	54
ENM-P-126	Controlling deposition temperature of VTD for pure-phase SnS thin film Dajeong Lee , Department of Materials Science and Engineering, and Optoelectronics Convergence Research Center, Chonnam National University Co-Authors: Heo, Jaeyeong	45	MOL-P-42	Metal–Organic Coordination Networks of Tetrahydroxyquinone on Cu(111) Based on Copper Adatom Tetramers Elaheh Mohebbi , University of Padova Co-Authors: Carlotto, Silvia; Sedona, Francesco; Betti, Maria Grazia; Mariani, Carlo; Sambi, Mauro; Casarin, Maurizio	55
ENM-P-127	Properties of Sb ₂ Se ₃ thin films depending on the effect of pre-annealing Dajeong Lee , Department of Materials Science and Engineering, and Optoelectronics Convergence Research Center, Chonnam National University Co-Authors: Heo, Jaeyeong	46	MOL-P-92	Fitting empirical force fields for Co-Salen on NaCl Rasmus Jakobsen , University College London Co-Authors: Gao, David; Schwarz, Alexander; Shluger, Alexander; Wiesendanger, Roland	56
MOL Organic molecules and molecular architectures on surfaces		Board	MOL-P-109	Engineering topological states in arrays of magnetic molecules through interaction with a 2D superconductor Danilo Longo , Institut de NanoSciences de Paris (INSP) - Sorbonne Université Co-Authors: Brun, C.; Cruguel, H.; Royer, S.; Palacio-Morales, A.; Debontridder, F.; David, P.; Witkowski, N.; Cren, T;	57
MOL-P-33	Density functional studies of metal-organic interfaces: Corroles on Ag(111) Jan-Niclas Luy , Philipps University Marburg Co-Authors: Herritsch, Jan; Zugermeier, Malte; Niefeld, Falk; Schmid, Martin; Gottfried, J. Michael; Tonner, Ralf	47	MOL-P-110	Self-assembly of DCA metal-organic network on different substrates. Daria Sostina , Paul Scherrer Institute Co-Authors: Muntwiler, Matthias; Jung, Thomas	58
MOL-P-34	Single-Molecule Electron Transport Properties of Sumanene Derivatives with Phosphine Sulfide Anchoring Groups Madoka Iwane , Tokyo Institute of Technology Co-Authors: Fujii, Shintaro; Kiguchi, Manabu; Furukawa, Shunsuke; Saito, Masaichi	48	MOL-P-132	Surface selective chiral expression and chiral induction with 3-bit conformational switches: a UHV-STM study Ajiguli Nuermaimaiti , iNANO, Aarhus University Co-Authors: Jethwa, Siddharth; Kjeldsen, Niels Due; Gothelf, Kurt V.; Linderoth, Trolle R.	59
MOL-P-35	Oxide – organic heterostructures: non-destructing charge displacement recognition in SnO _x / CuPc buried interfaces Maciej Krzywiecki , Silesian University of Technology, Institute of Physics - Center for Science and Education Co-Authors: Grzqdziel, Lucyna; Powroźnik, Paulina; Rechmann, Julian; Erbe, Andreas	49	MOL-P-133	A Molecularly Resolved Study of Palladium Coordination to a Self-Assembled Monolayer (SAM) Rodrigo Mateo Ortiz de la Morena , Saint Andrews University Co-Authors: Aitchison, Hannah; Lu, Hao; Zharnikov, Michael; Peifer, Raphael; Grohmann, Andreas; Buck, Manfred	60
MOL-P-37	Organometallic intermediates in the synthesis of graphene nanoribbons on Ag(111) Alexei Preobrajenski , Lund University / MAX IV Co-Authors: Simonov, K. A.; Generalov, A. V.; Vinogradov, A. S.; Svirskiy, G. I.; Cafolla, A. A.; McGuinness, C.; Taketsugu, T.; Lyalin, A.; Mårtensson, N.	50	MOL-P-140	Probing long-range structural order in SnPc/Ag(111) by umklapp process assisted low-energy angle-resolved photoelectron spectroscopy Stephan Jauernik , CAU Kiel Hein, Petra; Gurgel, Max; Falke, Julian; Bauer, Michael	127
MOL-P-38	Amino-Pyrylium molecular tectons for surface covalent networks Andrés Lombana , Université Aix-Marseille Co-Authors: Gratzer, Katharina; Nony, Laurent; Bocquet, Franck; Para, Franck; Loppacher, Christian; Giovanelli, Luca; Balaban, Teodor S.; Dumur, Frédéric; Gigmes, Didier; Chuzel, Olivier; Parrain, Jean-Luc; Clair, Sylvain	51	MRS Satellite Meeting: Molecular Reaction on Surfaces		Board
			MRS-P-87	Characterization of Reaction Layers Between Metals and Organic Thin Films with Hard X-ray Photoelectron Spectroscopy (HAXPES) Martin Schmid , Philipps Universität Marburg Co-Authors: Kachel, Stefan R.; Hochstraßer, Janika; Klein, Benedikt P.; Gottfried, J. Michael	61
			MRS-P-89	Comparison of CO adsorption and dissociation on flat, stepped and kinked Co surface Devyani Sharma , Dutch Institute for Fundamental Energy Research Co-Authors: Weststrate, Kees-Jan	62

MRS-P-90	Detailed insight into HfO ₂ ALD from in situ studies Giulio D'Acunto , Lund University Co-Authors: Shayesteh, Payam; Van Daele, Michiel; Gallet, Jean-Jacques; Bournel, Fabrice; Detavernier, Christophe; Dendooven, Jolien; Schnadt, Joachim	63	NPS	Functional surface nanostructures, plasmonics and sensors	Board
MRS-P-91	Monitoring the atomic layer deposition of TiO ₂ on InAs(100) with real-time ambient pressure XPS Foqia Rehman , Lund University Co-Authors: Troian, Andrea; D'Acunto, Giulio; Yngman, Sofie; Kokkonen, Esko; Knudsen, Jan; Urpelainen, Samuli; Timm, Rainer; Schnadt, Joachim	64 	NPS-P-75	Reduced aging phenomena in graded plasma polymer films Patrick Rupper , Empa, Swiss Federal Laboratories for Materials Science and Technology Co-Authors: Vandebossche, M.; Bernard, L.; Hegemann, D.; Heuberger, M.	73
MRS-P-119	Interfacially reinforced carbon fiber composites by grafting modified methylsilicone resin Tong Zhang , Harbin Institute of Technology Co-Authors: Bo, Jiang; Liwei, Zhao; Yudong, Huang	65	NPS-P-76	Monitoring spin-crossover behaviour in novel iron coordination complexes Outi Mustonen , University of New South Wales Co-Authors: Craze, Alexander R.; Howard-Smith, Kyle J.; Bhadbhade, Mohan M.; Li, Feng; Marjo, Christopher	74
NAM	Novel advancements in theoretical and experimental methods	Board	NPS-P-77	Role of β-silver sulfide solid electrolyte on Ag nanoprotrusion fabrication for surface-enhanced Raman spectroscopy Chaweewan Sapcharoenkun , National Nanotechnology Center Co-Authors: Treetong, Alongkot; Wutikhun, Tuksadon; Kasamechonchung, Panita; Klamchuen, Annop	75
NAM-P-64	X-ray absorption spectroscopy to determine originating depth of electrons that form an inelastic background of Auger electron spectrum Noritake Isomura , Toyota Central R&D Laboratories, Inc. Co-Authors: Murai, Takaaki; Oji, Hiroshi; Kimoto, Yasuji	66	NPS-P-79	Reusable, Responsive Brush Polymer on Surface Sunirmal Pal , Aarhus University Co-Authors: Sommerfeldt, Andreas; Pedersen, Steen U.; Daasbjerg, Kim	76
NAM-P-65	Identifying on-surface site-selective chemical conversions by theory-aided NEXAFS spectroscopy: The case of free-base corroles on Ag(111) Hazem Aldahhak , Universität Paderborn Co-Authors: Paszkiewicz, M.; Rauls, E.; Tebi, S.; Koch, R.; Schmidt, W. G.; Barth, J. V.; Schöfberger, W.; Müllegger, S.; Klappenberger, F.; Gerstmann, U.	67 	OXI	Oxide surfaces and thin films	Board
NAM-P-66	Tools for ambient pressure XPS – development of high pressure energy analysers and X-ray monochromators Christian Kirschfeld , PREVAC Sp. z o.o. Co-Authors: Dzierżęga, Marcin; Nittler, Laurent; Walczak, Łukasz	68	OXI-P-12	STM and XPS Studies of Titania-Ceria Mixed Oxide Thin Films Tao Xu , Aarhus University Co-Authors: Wendt, Stefan; Lauritsen, Jeppe V.	77
NAM-P-67	Control of active species in the afterglows of N ₂ and N ₂ -O ₂ microwave plasmas and the role of those active species in the selective surface nitridation of TiO ₂ nanocrystals Yu Kwon Kim , Ajou University Co-Authors: Jeon, Byungwook; Ricard, Andre; Sarrette, Jean-Philippe	69	OXI-P-14	Important Role of Reactive Pulse-Gas on Sputtered Zn ₃ N ₂ Thin Film Formation Annop Klamchuen , National Nanotechnology Center, NSTDA Co-Authors: Kasamechonchung, P.; Pornthreeraphat, S.; NuKeaw, J.	78
NAM-P-68	Photon-stimulated desorption mass spectroscopic system using a laser-produced plasma VUV emission source Masanori Kaku , University of Miyazaki Co-Authors: Fuchigami, Kazuki; Ogawa, Yuya; Matsumoto, Kazuya; Katto, Masahito; Sasaki, Wataru	70	OXI-P-17	In-situ apparatus connected to XPS for gas-metal reactions and wettability studies at high temperatures Alexey Koltssov , ArcelorMittal Global R&D Co-Authors: Cornu, Marie-José; Scheid, Julien	79
NAM-P-112	Radial dose around carbon ion tracks in liquid water Maurizio Dapor , European Centre for Theoretical Studies in Nuclear Physics and Related Areas (ECT*) Co-Authors: Azzolini, Martina; Abril, Isabel; de Vera, Pablo; Garcia-Molina, Rafael	71	OXI-P-18	Optical anisotropy of Fe ₃ O ₄ (110) investigated by Reflectance Anisotropy Spectroscopy Brian Walls , Trinity College Dublin Co-Authors: Fleischer, Karsten; Lubben, Olaf; Zhussupbekov, Kuanysh; Walshe, Killian; Shvets, Igor V.	80
NAM-P-123	Photon super-bunching from a generic tunnel junction Christopher Leon , Max-Planck-Institut für Festkörperforschung Co-Authors: Rosławska, Anna; Grewal, Abhishek; Gunnarsson, Olle; Kuhnke, Klaus; Kern, Klaus	72	OXI-P-19	Sulphur-induced reconstruction of the SrTiO ₃ (001) surface Mark Hastrup , Aarhus University Co-Authors: Beinik, Igor; Lauritsen, Jeppe V.	81
			OXI-P-20	Adsorption of CO ₂ on modified Fe ₃ O ₄ surfaces studied by density-functional theory Xiaoke Li , Humboldt University Co-Authors: Paier, Joachim	82
			OXI-P-21	Energetics and structure of FeO/Fe(001) interfaces Tomasz Ossowski , University of Wrocław Co-Authors: Kiejna, Adam	83

OXI-P-93	Surface oxides on Pt ₃ Sn(111) Lindsay Merte , Chalmers University of Technology Co-Authors: Vandichel, Matthias; Hagman, Benjamin; Shipilin, Mikhail; Lundgren, Edvin; Grönbeck, Henrik	84	SCR-P-46	Surface Chemistry of 1H-1,2,3-Triazole on Cu(100) and Oxygen-Precovred Cu(100) Jong-Liang Lin , National Cheng Kung University Co-Authors: Chen, Shang-Wei	94
OXI-P-22	Investigation of gas sensing properties of copper oxide nanowires using near ambient pressure XPS Břetislav Šmid , Charles University in Prague Co-Authors: Vorokhta, M.; Khalakhan, I.; Hozák, P.; Vlček, J.; Fit, P.; Vrňata, M.; Vondráček, M.; Lančok, J.; Matolín, V.	85	SCR-P-47	Statistical thermodynamics of lattice-gas model with directional interactions: tensor-networks approach Sergey Akimenko , Omsk State Technical University	95
OXI-P-100	Study of the newly synthesized NEGs of Ti-Al-Zr with enhanced performance for ultra-high vacuum generation Muhammad Khalid , NCP Islamabad Co-Authors: Mughal, Ghalib Hussain; Arshad, Muhammad; Asghar, Ghulam; Arif, Sabahat; Hussain, Talib; Rehman, Shafiq ur	86	SCR-P-48	Bulk Defect Dependent Adsorption of Acetone on Rutile TiO ₂ (110) Jessica Kräuter , Carl von Ossietzky University of Oldenburg Co-Authors: Al-Shamery, Katharina	96
OXI-P-102	A DFT study of (001) CaSnO ₃ orthorhombic perovskite surface with adsorbed gases (NH ₃ and CO) Jefferson Maul , Università Degli Studi di Torino Co-Authors: Santos, I.M.G.; Smabranio, J.R.	87	SCR-P-49	Poster withdrawn	97
OXI-P-103	High Resolution Electron Energy Loss Spectroscopy of CeO ₂ Agata Płucienik , Fritz-Haber-Institut der Max-Planck-Gesellschaft Co-Authors: Werner, Kristin; Kuhlenbeck, Helmut; Freund, Hajo	88	SCR-P-50	Finite-temperature effect on field evaporation under laser illumination: a time-dependent first-principles study Kazuki Uchida , Tokyo University of Science Co-Authors: Suzuki, Yasumitsu; Watanabe, Kazuyuki	98
OXI-P-128	Antireflection structures for silicon coupling lens in near-infrared region using AlO _x /TiO _x bilayer grown by atomic layer deposition Yong Tae Kim , Chonnam National University Co-Authors: Heo, Jaeyeong	89	SCR-P-51	DFT study of polymers coated palladium nanoparticles for H ₂ sensing Lucy Cusinato , Chalmers University of Techonology Co-Authors: Hellman, Anders	99
SAC Surface Astrochemistry		Board	SCR-P-52	Adsorption on water-functionalized Si(001)-(2x1) surfaces Niklas Fornefeld , Ruhr-Universität-Bochum Co-Authors: Scholz, Felicitas; Rochet, François; Kubsky, Stefan; Köhler, Ulrich	100
SAC-P-139	Deuteration of C ₆₀ on Highly Oriented Pyrolytic Graphite surface Georgios Pantazidis , Aarhus University Co-Authors: Thrower, J.D.; Scheffler, M.; Alhman, P.; Hornekær, L.	90	SCR-P-53	Photodesorption Dynamics of CO from Si(100) Revealed by Time-of-Flight Mass Spectrometry Daniel Lucaßen , University of Duisburg-Essen Co-Authors: Lackner, Michael; Hasselbrink, Eckart	101
SCR Surface adsorption, desorption, diffusion and reactions		Board	SCR-P-54	Peculiarities of Fe and Co GB diffusion in Cu Ainur Khairullin , National University of Science and Technology "MISIS" Co-Authors: Rodin, A. O.; Zhevnenko, S. N.	102
SCR-P-43	Evaluation of The AMBERLITE IRA-420 Resin Performance In The Treatment Of Pharmaceutical Wastewater By Adsorption Process. Nassila Sabba , University of sciences and technology Houari Boumedienne (USTHB) Co-Authors: Kais, H.; Yeddou-Mezenner, N.; Bensadi, Z.; Hamadi, A.	91	SCR-P-55	Preformed Cluster deposition and diffusion as a probe for surface characterization Julie Lion , Université Paris Sud 11 Co-Authors: Sarfati, Alain; Kebaili, Nouari	103
SCR-P-44	Application of agricultural waste as a biosorbent to removal of basic blue dye from aqueous solution: Kinetics and Equilibrium study Amel Hamadi , University of sciences and technology Houari Boumedienne (USTHB) Co-Authors: Yeddou-Mezenner, N.; Lounis, A.; Saba, N.; Kais, H.	92	SCR-P-56	O ₂ pressure dependence of initial oxidation kinetics on Ni(111) surfaces Shuichi Ogawa , Tohoku University Co-Authors: Taga, Ryo; Ozaki, Tsukasa; Yoshigoe, Akitaka; Takakuwa, Yuji	104
SCR-P-45	SO ₂ adsorption on rutile TiO ₂ (110): An infrared reflection- absorption spectroscopy and density functional theory study David Langhammer , Uppsala University Co-Authors: Kullgren, Jolla; Mitev, Pavlin; Österlund, Lars	93	SCR-P-58	Surface analysis of zeolites with a hydroxyapatite layer for potential dental application Wojciech Koczorowski , Wielkopolska Centre of Advanced Technologies Co-Authors: Okulus, Zuzanna; Pietrzyńska, Monika; Sandomierski, Mariusz; Voelkel, Adam	105
			SCR-P-59	Adsorption of H ₂ O and CO ₂ on Fe ₃ O ₄ surfaces Eman Zaki , Fritz-Haber-Institut der Max-Planck-Gesellschaft Co-Authors: Shaikhutdinov, Shamil; Freund, Hans-Joachim	106

SCR-P-60	Iodine adsorption on Ni(100): structural phase transitions and reconstruction Nikita Komarov , A.M.Prokhorov General Physics Institute of Russian Academy of Sciences Co-Authors: Pavlova, Tatiana; Andryushechkin, Boris	107
SCR-P-61	Whether quenched metal films should be amorphous or crystalline: molecular dynamics study Sergey Vasilyev , Tver State University Co-Authors: Samsonov, Vladimir M.; Talyzin, Igor V.	108
SCR-P-111	Reactivity of Iron Sulfide Layers on Au(111) Giulia Berti , Fritz-Haber-Institut der Max-Planck-Gesellschaft Co-Authors: Davis, Earl M.; Kuhlenbeck, Helmut; Freund, Hans-Joachim	109
SCR-P-134	Adsorption of CO on Nickel-decorated Muscovite Mica Kristoffer Hunvik , NTNU Co-Authors: Støvneng, Anna; Raaen, Steinar	110 
SCR-P-141	High formation of negative ions during collisions between H+ projectiles and a Cu(111) surface. Fernando José Bonetto , Universidad Nacional del Litoral Co-Authors: Quintero Riascos, Vanessa; Tacca, Marcos; Vidal, Ricardo; Goldberg, Edith	128

SEM	Semiconductor surfaces	Board
SEM-P-72	Surface vibrations of the Sn-(v3xv3)/Si(111) reconstruction studied by temperature-dependent Raman spectroscopy Benedikt Halbig , University Würzburg Co-Authors: Bass, Utz; Geurts, Jean	111 
SEM-P-73	Depth profiling of GaP/Si(001) heterostructures by XPS in combination with Ar gas cluster ion beam sputtering Oleksandr Romanyuk , Institute of Physics, AVCR Co-Authors: Gordeev, Ivan; Ukrantsev, Egor; Supplie, Oliver; Kleinschmidt, Peter; Hannappel, Thomas; Bartos, Igor; Jiricek, Petr	112

SEM-P-135	Characterization of Sb ₂ Se ₃ single crystal surfaces for photo-catalysis Roberta Totani , Physics Institute, University of Zürich Co-Authors: von Rohr, Fabian; Zabka, Wolf-Dietrich; Novotny, Zbynek; Osterwalder, Juerg	113
SEM-P-136	Identification of Tetramers in the Silver Film Grown on Si(001) Surface at Room Temperature Kai Huang , University of Toronto Co-Authors: Huxter, William S.; Singh, Chandra Veer; Nogami, Jun	114

SMI	Surface Magnetism and Interfacial Superconductivity	Board
SMI-P-86	Spin-resolved electron spectroscopy for spintronic materials analysis Alexander Pavlov , Peter the Great St. Petersburg Polytechnic University Co-Authors: Ustinov, Alexander B.; Petrov, Vladimir N.	115 

UES	Ultrafast Dynamics and Electronic Structure	Board
UES-P-69	Continuous and Simultaneous Measurement of Electrical Conductance and SERS for the Single Molecular Junction Shuji Kobayashi , Tokyo Institute of Technology Co-Authors: Kaneko, Satoshi; Kiguchi, Manabu	116
UES-P-71	Surface Engineered Nanostructure based GaN Ultraviolet Photodetectors Monu Mishra , CSIR-National Physical Laboratory Co-Authors: Gundimeda, Abhiram; Krishna, Shabin; Aggarwal, Neha; Gupta, Govind	117 
UES-P-85	Valley-polarized excitation in bulk 2H-MoS ₂ and monolayer WS ₂ /Au(111) Hauke Beyer , CAU Kiel Co-Authors: Rohde, Gerald; Cabo, Antonija Grubisic; Stange, Ankatrin; Bignardi, Luca; Lizzit, Daniel; Lacovig, Paolo; Lizzit, Silvano; Rossnagel, Kai; Hofmann, Philip; Bauer, Michael	118 
UES-P-113	Ginzburg-Landau-Langevin theory and SSH model for Peierls transition in In/Si(111) Yasemin Ergün , Leibniz Universität Hannover Co-Authors: Jeckelmann, Eric	119 

WAT	Water on surfaces	Board
WAT-P-80	Formation of a Chain-like Water Single Molecule Junction with Pd Electrodes Risa Fukuzumi , Tokyo Institute of Technology Co-Authors: Kaneko, Satoshi; Kiguchi, Manabu	120
WAT-P-81	Poster withdrawn	121
WAT-P-82	Robust anti-fouling and anti-icing surfaces Naureen Akhtar , University of Bergen Co-Authors: Holst, Bodil	122
WAT-P-83	An Investigation into the Structure of Water on an Open-Face of Ni(110) Nikki Gerrard , University of Liverpool Co-Authors: Hodgson, Andrew	123 
WAT-P-118	A study of GaN(0001) surfaces under ambient conditions by NAP-XPS, LEED and AFM techniques Mais Ahmad , Technical University of Berlin / Leibniz Institute for Analytical Sciences - ISAS Co-Authors: Raschke, Hannes; Prakash, Ravi; Norbert, Esser; Hergenröder, Roland	124 
WAT-P-137	Ab initio modelling of defective titania surfaces Ji Chen , Max Planck Institute for Solid State Research Co-Authors: Michaelides, Angelos; Bogdanov, Nikolay; Alavi, Ali	125
WAT-P-138	D ₂ O absorption on K-rich feldspar Weijia Wang , Karlsruhe Institute of Technology Co-Authors: Wang, Weijia; Nefedov, Alexei; Kiselev, Alexei; Leisner, Thomas; Wöll, Christof	126

AUTHOR INDEX

A	
Aballe, L.	OXI-CT-TUE-26
Abb, M.	OXI-CT-WED-42
Abdou, J.-M.	CAT-P-7
Abril, I.	NAM-P-112
Abuín, M.	CAT-P-5
Achilli, S.	MOL-CT-THU-26
Achim, C.	MOL-CT-TUE-5
Achour, H.	MOL-CT-THU-30
Achour, S.	CAT-P-10
Acremann, Y.	CAT-P-128
Adamsen, K. C.	ENM-CT-MON-4
Africh, C.	NAM-CT-TUE-4
Aggarwal, N.	SCR-CT-MON-15
Agustsson, S.	2DM-CT-MON-17
Ahles, S.	2DM-CT-TUE-18
Ahmad, A.	UES-P-71
Ahmad, M.	NAM-CT-TUE-4
Ahsan, A.	MOL-CT-THU-35
Aiba, A.	ENM-CT-MON-2
Aïssou, T.	WAT-P-118
Aitchison, H.	MOL-P-133
Akey, A. J.	CAT-CT-WED-15
Akhtar, N.	WAT-P-82
Akimenko, S.	SCR-P-47
Al Taleb, A.	NAM-CT-TUE-5
Alavi, A.	2DM-P-105
Albertin, S.	WAT-P-137
Aldahhak, H.	CAT-CT-THU-31
Alducin, M.	CAT-CT-TUE-20
Alexandrowicz, G.	OXI-CT-WED-37
Allegretti, F.	NAM-P-65
Aliata, D.	SCR-CT-MON-14
Allison, W.	WAT-CT-TUE-2
Aloni, S.	MOL-CT-WED-16
Alperovich, V.	SCR-CT-MON-13
	OXI-CT-MON-11
	ELC-CT-TUE-11
	2DM-P-24
	MOL-CT-TUE-12
	UES-CT-MON-4
	2DM-CT-TUE-25
	SEM-CT-TUE-7

B	
Al-Shamery, K.	OXI-CT-MON-17
Amiaud, L.	SCR-P-48
Andersen, J. N.	WAT-CT-THU-14
Andersen, M.	CAT-CT-THU-27
Andreatta, F.	CAT-IT-TUE-1
Andres-Penares, D.	CAT-CT-THU-27
Andryushechkin, B.	OXI-CT-TUE-21
Anemone, G.	2DM-CT-MON-4
Anggara, K.	2DM-P-25
Angot, T.	UES-CT-MON-2
Apostol, N.	2DM-CT-TUE-34
Appelfeller, S.	2DM-CT-TUE-22
Araby, M. I.	SCR-P-60
Ares, P.	MOL-P-38
Arif, S.	WAT-CT-TUE-9
Arnau, A.	OXI-CT-MON-11
Balestrino, G.	CDM-CT-THU-9
Arnold, F.	2DM-P-130
Arshad, M.	2DM-P-25
Artaud, A.	UES-CT-MON-2
Baraldi, A.	2DM-P-106
Baranwal, V.	CDM-IT-THU-6
Arvidsson, A.	CDM-IT-THU-2
Asensio, M. C.	OXI-CT-TUE-34
Asghar, G.	CAT-CT-TUE-41
Astaghiri, A.	OXI-P-100
Atodiresei, N.	2DM-CT-TUE-10
Attacalite, C.	2DM-CT-WED-40
Attia, S.	2DM-CT-WED-41
Avidor, N.	OXI-P-100
Avila, J.	2DM-CT-TUE-12
Azzolini, M.	WAT-CT-TUE-2
Bauer, T.	UES-CT-MON-4
Bauer, U.	2DM-CT-TUE-34
Bauer, M.	NAM-P-112

Bayat, A.	OXI-CT-WED-38	Biswas, D.	2DM-P-25	Brotóns-Gisbert, M.	2DM-CT-TUE-34
Bechis, I.	MOL-CT-THU-27	Björk, J.	UES-CT-MON-2	Brown, S. A.	2DM-CT-TUE-31
Becker, C.	MOL-CT-WED-23	Blažík, J.	MOL-CT-THU-28	Brown, W.	SAC-CT-THU-3
Beinik, I.	OXI-P-19	Blažík, P.	MRS-IT-TUE-13	Bruix, A.	CAT-CT-TUE-3
Bell, D. C.	CAT-CT-WED-15	Beller, M.	WAT-CT-TUE-9	Brummel, O.	ELC-CT-MON-1
Bembel, A. G.	ENM-CT-MON-5	Benedek, G.	WAT-CT-TUE-8	Brun, C.	ELC-CT-MON-2
Benedek, G.	SCR-CT-THU-27	Bensadi, Z.	CAT-CT-THU-31	Brune, H.	MOL-CT-THU-32
Bernard, L.	2DM-P-24	Berganová, K.	CAT-CT-THU-28	Büchner, C.	MOL-P-109
Bernardi, J.	2DM-CT-TUE-27	Bergin, M.	CAT-CT-THU-24	Buck, M.	MRS-CT-TUE-16
Bernasconi, M.	2DM-CT-TUE-28	Berkó, A.	CAT-CT-THU-20	Bu, Y.	CAT-CT-WED-11
Berretti, E.	SCR-P-43	Bernard, L.	OXI-CT-WED-37	Büchler, C.	2DM-CT-MON-16
Berti, G.	ELC-CT-MON-2	Bertin, M.	MOL-CT-WED-16	Buck, M.	MOL-CT-TUE-1
Bertin, M.	NAM-CT-WED-10	Bertoni, R.	OXI-CT-MON-11	Buczeko, R.	MOL-P-133
Bertoni, R.	MRS-IT-MON-2	Bertram, M.	MRS-P-119	Bühlmann, K.	2DM-P-130
Bertram, M.	CDM-CT-MON-1	Besenbacher, F.	MOL-CT-TUE-4	Bukaluk, A.	NAM-CT-TUE-4
Beyer, H.	UES-IT-MON-1	Betti, M. G.	NPS-CT-THU-4	Busch, M.	CAT-P-6
Beyer, H.	CDM-IT-THU-5	Bhadbhade, M. M.	MOL-CT-THU-27	Busse, C.	OXI-CT-WED-42
Beyer, H.	UES-IT-MON-1	Bian, G.	2DM-CT-TUE-20	Bussetti, G.	2DM-IT-MON-1
Beyer, H.	MOL-CT-TUE-3	Bianchi, M.	2DM-CT-TUE-24	Cacho, C.	OXI-CT-TUE-31
Beyer, H.	CAT-P-10	Boden, D.	CAT-P-10	Caciuc, V.	MOL-CT-TUE-5
Beyer, H.	OXI-CT-WED-36	Bodén, A.	OXI-CT-TUE-8	Cafolla, A. A.	ELC-CT-TUE-11
Beyer, H.	CDM-CT-TUE-8	Bogdanov, N.	COR-P-117	Cai, L.	COR-P-117
Beyer, H.	2DM-CT-TUE-27	Bohamud, T.	WAT-P-137	Calaza, F.	2DM-P-25
Beyer, H.	2DM-CT-TUE-28	Boile, L.	SCR-CT-THU-22	Callaert, C.	UES-CT-MON-2
Beyer, H.	2DM-P-25	Boix, V.	MOL-CT-THU-37	Calleja, F.	MOL-CT-TUE-8
Beyer, H.	2DM-CT-WED-38	Bonetto, F. J.	CAT-CT-THU-27	Camilli, L.	MOL-P-37
Beyer, H.	2DM-CT-WED-40	Bonivardi, A.	2DM-P-26	Campbell, E. E. B.	MOL-CT-WED-18
Beyer, H.	2DM-CT-WED-43	Booth, S.	SCR-P-141	Campi, D.	2DM-P-25
Beyer, H.	2DM-CT-WED-44	Borg, A.	SCR-CT-MON-5	Campisi, D.	UES-CT-MON-2
Beyer, H.	CAT-CT-THU-26	Bortolini, C.	ELC-CT-MON-3	Canals, B.	2DM-CT-TUE-22
Beyer, H.	2DM-CT-WED-44	Bostwick, A.	CAT-CT-WED-8	Cancellieri, C.	MOL-CT-TUE-8
Beyer, H.	2DM-CT-TUE-24	Bournel, F.	NPS-CT-THU-15	Candida, A.	MOL-CT-TUE-19
Beyer, H.	2DM-CT-WED-41	Bozhko, S.	2DM-CT-TUE-25	Calvo-Almazan, I.	2DM-CT-TUE-29
Beyer, H.	2DM-CT-WED-43	Brambilla, A.	MRS-P-90	Camilli, L.	OXI-CT-TUE-31
Beyer, H.	2DM-CT-WED-44	Bichler, M.	SCR-CT-THU-31	Campbell, E. E. B.	MOL-CT-TUE-5
Beyer, H.	NAM-CT-TUE-4	Bienert, J.	OXI-CT-TUE-31	Campi, D.	ELC-CT-TUE-11
Beyer, H.	UES-CT-MON-13	Bignardi, L.	2DM-CT-MON-11	Campisi, D.	MOL-CT-TUE-12
Beyer, H.	SEM-CT-TUE-2	Bichler, M.	MOL-CT-TUE-5	Canals, B.	SCR-CT-MON-16
Beyer, H.	UES-CT-MON-2	Bremholm, M.	2DM-CT-WED-40	Cancellieri, C.	UES-CT-MON-4
Beyer, H.	2DM-P-130	Bichler, M.	UES-CT-MON-13	Candida, A.	2DM-CT-TUE-24
Beyer, H.	WAT-CT-TUE-9	Bielařík, M.	CDM-IT-THU-5	Camilli, L.	COR-P-117
Beyer, H.	CAT-CT-WED-15	Bissel, J.	COR-CT-THU-3	Campbell, E. E. B.	MOL-CT-TUE-38
Beyer, H.	2DM-CT-WED-40	Bigner, J.	NAM-CT-TUE-4	Campi, D.	2DM-CT-TUE-27
Beyer, H.	2DM-CT-TUE-43	Bigner, J.	SAC-CT-THU-3	Campisi, D.	2DM-CT-TUE-28
Beyer, H.	2DM-CT-WED-44	Birk, M.	SAC-IT-THU-6	Canals, B.	SAC-CT-THU-10
Beyer, H.	UES-CT-MON-2	Birrell, J.	SAC-IT-THU-9	Cancellieri, C.	SAC-CT-THU-9
Beyer, H.	UES-P-85	Bisson, R.	MOL-CT-THU-37	Candida, A.	2DM-CT-MON-10
Beyer, H.	SCR-CT-THU-5	Bisson, R.	2DM-CT-MON-8	Camilli, L.	OXI-CT-MON-12
Beyer, H.	2DM-CT-TUE-21	Büssow, R.	MOL-CT-WED-14	Campbell, E. E. B.	2DM-P-26

Candian, A.	SAC-CT-THU-9
Cantoni, C.	OXI-CT-TUE-34
Caputo, M.	OXI-CT-MON-12
Carbonell, E.	MRS-IT-TUE-11
Carbonio, E.	SCR-CT-MON-4
Carlà, F.	CAT-P-10
Carla, F.	OXI-CT-TUE-34
Carlomagno, I.	SEM-CT-TUE-8
Carlotta, S.	OXI-CT-MON-14
Carlsson, P. -A.	MOL-P-42
Carnevali, V.	CAT-CT-THU-24
Carrasco, E.	CAT-CT-THU-25
Casari, C. S.	2DM-CT-TUE-18
Casarín, M.	WAT-CT-TUE-3
Cassano, D.	2DM-CT-TUE-33
Cassidy, A.	MOL-CT-THU-26
Castell, M. R.	MOL-P-42
Castellanos-Gomez, A.	CAT-CT-THU-33
Cavalca, F.	NPS-CT-THU-7
Cebrat, A.	OXI-CT-TUE-20
Cempura, G.	2DM-CT-WED-35
Ceppek, C.	NAM-CT-WED-11
Chandler, H.	2DM-P-105
Chapelier, C.	CAT-CT-THU-27
Chapman, R. T.	MOL-CT-TUE-3
Chatterjee, A.	SEM-CT-TUE-6
Chella, K.	2DM-CT-TUE-18
Chen, J. I.	2DM-CT-TUE-10
Chen, J.	2DM-CT-MON-10
Chen, K.	2DM-P-25
Chen, M.	UES-CT-MON-2
Chen, M.	MOL-CT-TUE-10
Chen, P.	CAT-P-4
Chen, S. -W.	CDM-CT-THU-9
Chen, S. -Z.	2DM-P-32
Chen, Y. -J.	WAT-CT-TUE-5
Chen, Y.	WAT-P-137
Chen, Y.	MRS-IT-MON-2
Chen, Y.	CAT-CT-THU-22
Chen, Y.	2DM-CT-WED-35
Chen, Y.	SCR-P-46
Chen, Y.	MRS-IT-MON-2
Chen, Y.	NAM-CT-TUE-4
Chen, Y.	UES-CT-MON-10
Chen, Z.	MRS-IT-TUE-13
Cheng, Y.	ELC-CT-TUE-9
Cheol Oh, S.	SCR-CT-MON-13
Cherevko, S.	ELC-CT-MON-1

Chernyshikhin, S.	SCR-CT-THU-29
Cheynis, F.	NAM-CT-TUE-7
Chi, L.	MOL-IT-THU-34
Curcio, D.	MOL-CT-THU-35
Chiang, C. -T.	UES-CT-MON-5
Chiang, T. -C.	2DM-CT-TUE-31
Chien, M. H.	ELC-CT-MON-4
Chikina, A.	OXI-CT-MON-12
Cho, H.	MOL-P-40
Cho, J. Y.	ENM-P-124
Cho, Y.	ENM-P-125
Chorkendorff, I.	2DM-CT-WED-37
Chulkov, E. V.	ELC-CT-TUE-8
Chuzel, O.	2DM-CT-TUE-29
Ciccarelli, F.	MOL-P-38
Cirera, B.	OXI-CT-TUE-31
Dablemont, C.	2DM-CT-MON-11
D'Acunto, G.	MOL-CT-TUE-5
Dähne, M.	ELC-CT-TUE-11
Dalgaard, K. J.	2DM-CT-MON-2
Damsgaard, C. D.	MOL-CT-WED-22
Dapor, M.	MOL-P-38
Darling, G. R.	CAT-CT-THU-21
Das, P. K.	ELC-CT-MON-4
Datteo, M.	2DM-IT-WED-39
Coletti, C.	SCR-CT-MON-17
Comelli, G.	2DM-CT-MON-17
Conrad, J.	2DM-CT-TUE-18
De Angelis, D.	SCR-CT-THU-18
De Decker, Y.	CDM-IT-THU-6
De Oteyza, D. G.	SEM-CT-TUE-2
De Santis, M.	2DM-CT-MON-10
De Silva, K.	2DM-CT-MON-14
De Temmerman, G.	UES-CT-MON-14
Costantini, R.	2DM-CT-MON-17
de Vera, P.	UES-CT-MON-14
Craze, A. R.	NPS-P-76
Cren, T.	MOL-CT-THU-32
Dedkov, Y.	MOL-P-109
Creutzburg, M.	OXI-CT-TUE-29
Deimel, P.	OXI-CT-MON-2
del Cueto, M.	OXI-CT-MON-3
Delgado, G.	OXI-CT-MON-5
Dell'Angela, M.	2DM-CT-TUE-30
Cruguel, H.	WAT-CT-THU-11
Crumlin, E. J.	MOL-CT-THU-32
Cserháti, C.	MOL-P-109
Cuenya, B. R.	CAT-CT-WED-16
Cuppen, H.	SAC-CT-THU-2
Curiotto, S.	2DM-CT-WED-40
Cusinato, L.	NAM-CT-TUE-4
Czajka, R.	NAM-CT-TUE-7
Czyska-Filemonowicz, A.	SCR-P-51
D	
Daasbjerg, K.	CAT-P-9
Diebold, U.	ELC-P-62
Diablemont, C.	ENM-CT-MON-5
D'Acunto, G.	NPS-P-79
Dähne, M.	CAT-P-121
Dalgaard, K. J.	WAT-CT-THU-14
Damsgaard, C. D.	MRS-P-90
Dapor, M.	MRS-P-91
Darling, G. R.	SEM-CT-TUE-5
Das, P. K.	CDM-IT-THU-5
Datteo, M.	ELC-CT-TUE-8
Coletti, C.	2DM-CT-WED-44
Comelli, G.	2DM-CT-MON-12
Conrad, J.	ENM-CT-MON-2
De Angelis, D.	2DM-CT-MON-10
De Decker, Y.	MOL-CT-THU-32
De Oteyza, D. G.	MOL-P-109
De Santis, M.	SCR-P-111
De Silva, K.	2DM-CT-WED-44
De Temmerman, G.	SCR-CT-THU-23
Costantini, R.	MRS-IT-TUE-11
de Vera, P.	MRS-IT-TUE-11
Craze, A. R.	OXI-P-17
Cren, T.	NPS-CT-THU-9
Dedkov, Y.	2DM-P-27
Deimel, P.	2DM-P-28
del Cueto, M.	2DM-CT-MON-6
Delgado, G.	OXI-CT-TUE-33
Dell'Angela, M.	MOL-CT-THU-32
Cruguel, H.	MOL-P-109
Cuenya, B. R.	MOL-CT-THU-36
Cuppen, H.	OXI-CT-TUE-33
Curiotto, S.	MOL-CT-THU-32
Cusinato, L.	MOL-P-109
Czajka, R.	MOL-CT-THU-36
Czyska-Filemonowicz, A.	2DM-P-131
Dabek, L.	SCR-CT-MON-13
De la Cuesta, M.	SCR-CT-THU-25
Delgado, G.	OXI-CT-TUE-26
Dell'Angela, M.	UES-CT-MON-14
Cruguel, H.	MOL-CT-THU-32
Crumlin, E. J.	MOL-P-109
Cuerda, B. R.	CAT-CT-WED-16
Cuppen, H.	SAC-CT-THU-2
Curcio, D.	2DM-CT-WED-40
Curiotto, S.	NAM-CT-TUE-4
Cusinato, L.	SEM-CT-TUE-7
Czajka, R.	OXI-CT-MON-12
Czyska-Filemonowicz, A.	SEM-CT-TUE-6
D	
Daasbjerg, K.	CAT-P-9
Diebold, U.	ELC-P-62
Diablemont, C.	ENM-CT-MON-5
D'Acunto, G.	NPS-P-79
Dähne, M.	CAT-P-121
Dalgaard, K. J.	WAT-CT-THU-14
Damsgaard, C. D.	MRS-P-90
Dapor, M.	MRS-P-91
Darling, G. R.	SEM-CT-TUE-5
Das, P. K.	CDM-IT-THU-5
Datteo, M.	ELC-CT-TUE-8
Coletti, C.	2DM-CT-WED-44
Comelli, G.	2DM-CT-MON-11
Conrad, J.	ENM-CT-MON-2
De Angelis, D.	2DM-CT-MON-10
De Decker, Y.	MOL-CT-THU-32
De Oteyza, D. G.	MOL-P-109
De Santis, M.	SCR-P-111
De Silva, K.	2DM-CT-WED-44
De Temmerman, G.	SCR-CT-THU-23
Costantini, R.	MRS-IT-TUE-11
de Vera, P.	MRS-IT-TUE-11
Craze, A. R.	OXI-P-76
Cren, T.	MOL-CT-THU-32
Dedkov, Y.	MOL-P-109
Creutzburg, M.	OXI-CT-TUE-29
Deimel, P.	OXI-CT-MON-2
del Cueto, M.	OXI-CT-MON-3
Delgado, G.	OXI-CT-MON-5
Dell'Angela, M.	2DM-CT-TUE-30
Cruguel, H.	WAT-CT-THU-11
Crumlin, E. J.	MOL-CT-THU-32
Cuerda, B. R.	MOL-P-109
Cuppen, H.	OXI-CT-TUE-33
Curcio, D.	2DM-CT-WED-40
Curiotto, S.	NAM-CT-TUE-4
Cusinato, L.	SEM-CT-TUE-7
Czajka, R.	OXI-CT-MON-12
Czyska-Filemonowicz, A.	SEM-CT-TUE-6
D	
Daasbjerg, K.	CAT-P-9
Diebold, U.	ELC-P-62
Diablemont, C.	ENM-CT-MON-5
D'Acunto, G.	NPS-P-79
Dähne, M.	CAT-P-121
Dalgaard, K. J.	WAT-CT-THU-14
Damsgaard, C. D.	MRS-P-90
Dapor, M.	MRS-P-91
Darling, G. R.	SEM-CT-TUE-5
Das, P. K.	CDM-IT-THU-5
Datteo, M.	ELC-CT-TUE-8
Coletti, C.	2DM-CT-WED-44
Comelli, G.	2DM-CT-MON-11
Conrad, J.	ENM-CT-MON-2
De Angelis, D.	2DM-CT-MON-10
De Decker, Y.	MOL-CT-THU-32
De Oteyza, D. G.	MOL-P-109
De Santis, M.	SCR-P-111
De Silva, K.	2DM-CT-WED-44
De Temmerman, G.	SCR-CT-THU-23
Costantini, R.	MRS-IT-TUE-11
de Vera, P.	MRS-IT-TUE-11
Craze, A. R.	OXI-P-76
Cren, T.	MOL-CT-THU-32
Dedkov, Y.	MOL-P-109
Creutzburg, M.	OXI-CT-TUE-29
Deimel, P.	OXI-CT-MON-2
del Cueto, M.	OXI-CT-MON-3
Delgado, G.	OXI-CT-MON-5
Dell'Angela, M.	2DM-CT-TUE-30
Cruguel, H.	WAT-CT-THU-11
Crumlin, E. J.	MOL-CT-THU-32
Cuerda, B. R.	MOL-P-109
Cuppen, H.	OXI-CT-TUE-33
Curcio, D.	2DM-CT-WED-40
Curiotto, S.	NAM-CT-TUE-4
Cusinato, L.	SEM-CT-TUE-7
Czajka, R.	OXI-CT-MON-12
Czyska-Filemonowicz, A.	SEM-CT-TUE-6
D	
Daasbjerg, K.	CAT-P-9
Diebold, U.	ELC-P-62
Diablemont, C.	ENM-CT-MON-5
D'Acunto, G.	NPS-P-79
Dähne, M.	CAT-P-121
Dalgaard, K. J.	WAT-CT-THU-14
Damsgaard, C. D.	MRS-P-90
Dapor, M.	MRS-P-91
Darling, G. R.	SEM-CT-TUE-5
Das, P. K.	CDM-IT-THU-5
Datteo, M.	ELC-CT-TUE-8
Coletti, C.	2DM-CT-WED-44
Comelli, G.	2DM-CT-MON-11
Conrad, J.	ENM-CT-MON-2
De Angelis, D.	2DM-CT-MON-10
De Decker, Y.	MOL-CT-THU-32
De Oteyza, D. G.	MOL-P-109
De Santis, M.	SCR-P-111
De Silva, K.	2DM-CT-WED-44
De Temmerman, G.	SCR-CT-THU-23
Costantini, R.	MRS-IT-TUE-11
de Vera, P.	MRS-IT-TUE-11
Craze, A. R.	OXI-P-76
Cren, T.	MOL-CT-THU-32
Dedkov, Y.	MOL-P-109
Creutzburg, M.	OXI-CT-TUE-29
Deimel, P.	OXI-CT-MON-2
del Cueto, M.	OXI-CT-MON-3
Delgado, G.	OXI-CT-MON-5
Dell'Angela, M.	2DM-CT-TUE-30
Cruguel, H.	WAT-CT-THU-11
Crumlin, E. J.	MOL-CT-THU-32
Cuerda, B. R.	MOL-P-109
Cuppen, H.	OXI-CT-TUE-33
Curcio, D.	2DM-CT-WED-40
Curiotto, S.	NAM-CT-TUE-4
Cusinato, L.	SEM-CT-TUE-7
Czajka, R.	OXI-CT-MON-12
Czyska-Filemonowicz, A.	SEM-CT-TUE-6
D	
Daasbjerg, K.	CAT-P-9
Diebold, U.	ELC-P-62
Diablemont, C.	ENM-CT-MON-5
D'Acunto, G.	NPS-P-79
Dähne, M.	CAT-P-121
Dalgaard, K. J.	WAT-CT-THU-14
Damsgaard, C. D.	MRS-P-90
Dapor, M.	MRS-P-91
Darling, G. R.	SEM-CT-TUE-5
Das, P. K.	CDM-IT-THU-5
Datteo, M.	ELC-CT-T

Fonin, M.	MOL-CT-THU-36 2DM-P-131
Fontanot, T.	2DM-CT-MON-17
Fornefeld, N.	SCR-P-52
Forrest, T.	OXI-CT-MON-14
Forsman, A.	2DM-P-130
Förster, S.	OXI-CT-TUE-30
Fouquat, L.	SCR-CT-THU-19
Fouquet, P.	SCR-CT-MON-16
Franceschi, G.	OXI-CT-WED-35
Franchi, S.	ELC-CT-TUE-10
Franchini, C.	WAT-CT-TUE-8
Franké, K.	OXI-CT-MON-11
Franz, D.	PL-4
Franz, M.	2DM-CT-TUE-30
Fratesi, G.	SEM-CT-TUE-5
Fredon, A.	MOL-CT-THU-26
Fredriksson, H.	MOL-CT-TUE-5
Frenken, J.	SAC-CT-THU-2
Freund, H.-J.	CAT-CT-WED-11
Freytag, C.	NPS-CT-THU-13
Friedrich, N.	OXI-CT-TUE-32
Frigge, R.	OXI-CT-MON-9
Front, A.	2DM-CT-MON-16
Fuchigami, K.	SCR-P-59
Fuchs, Y.	OXI-CT-103
Fujii, J.	SCR-P-111
Fujii, S.	OXI-CT-MON-6
Freytag, C.	CAT-P-6
Friedrich, N.	MRS-IT-TUE-11
Frigge, R.	SAC-CT-THU-5
Front, A.	CAT-CT-WED-13
Fuchigami, K.	NAM-P-68
Fuchs, Y.	CAT-P-10
Fujii, J.	2DM-CT-WED-44
Fujii, S.	NPS-CT-THU-8
Fukuda, T.	MOL-P-34
Fukushima, T.	MOL-P-40
Fukutani, K.	MOL-CT-TUE-11
Fukuyama, H.	SCR-CT-MON-6
Fukuyama, H.	2DM-P-30
Fukuzumi, R.	MOL-CT-TUE-11
Furukawa, S.	UES-CT-MON-12
Fuseya, Y.	WAT-P-80
Gade, L. H.	MOL-P-34
Gahl, C.	UES-CT-MON-12
Galbiati, M.	COR-P-117

G

Gallego, J. M.	2DM-CT-MON-2
Gallet, J.-J.	MOL-CT-WED-22
Gallo, T.	MRS-P-90
Galpàsoro, O.	CAT-CT-THU-27
Ganduglia-Pirovano, V.	SCR-CT-MON-14
Gratzer, K.	CAT-CT-TUE-4
Gao, D.	MOL-P-92
Gao, Y.	2DM-CT-WED-35
Garai, D.	WAT-CT-TUE-7
García Rodríguez, D.	CAT-CT-WED-6
Garcia, C.	MOL-CT-WED-18
Garcia-Molina, R.	NAM-P-112
Garreau, Y.	CAT-CT-THU-21
Geilhufe, R. M.	CDM-IT-THU-6
Gelisio, L.	CAT-P-5
Generalov, A. V.	MOL-P-37
Gerrard, N.	MOL-CT-WED-18
Gerstmann, U.	WAT-P-83
Geurts, J.	NAM-P-65
Ghiorghiu, F.	SEM-P-72
Giaccherini, A.	ENM-CT-MON-6
Giannotti, D.	SEM-CT-TUE-8
Gibson, A.	OXI-CT-TUE-31
Gierz, I.	2DM-CT-MON-11
Giessibl, F. J.	MOL-CT-TUE-5
Guan, X.	ENM-CT-MON-8
Gubó, R.	UES-P-85
Groves, M. N.	2DM-P-130
Grubišić-Čabo, A.	MRS-CT-TUE-17
Grunst, M.	2DM-P-25
Grządziel, L.	MOL-P-35
Güemes, D.	CAT-P-10
Gianelli, L.	CAT-P-120
Gavic, A.	CAT-P-129
Gleißner, R.	OXI-CT-WED-36
Godiksen, A.	MRS-CT-TUE-14
Godsi, O.	CDM-CT-TUE-2
Gohda, Y.	SCR-CT-THU-19
Görgen, E.	SMI-CT-WED-2
Gómez-Herrero, J.	SCR-P-141
Goniakowski, J.	2DM-CT-MON-3
Gopinath, C. S.	OXI-CT-TUE-24
Gordeev, I.	OXI-CT-TUE-20
Görling, A.	OXI-IT-TUE-19
Gustafsson, J.	OXI-CT-MON-13
Haastrup, M. J.	SEM-P-73
Gottfried, J. M.	CAT-CT-TUE-21
Gort, R.	NAM-CT-TUE-4
Gotheif, K. V.	MOL-P-132
Gottfried, J. M.	MOL-P-33
Gourdon, A.	MOL-CT-WED-14
Gourdon, A.	MRS-P-87
Gouzon, A.	MRS-IT-MON-3
Gouzon, A.	MRS-IT-TUE-21

H

Granados, D.	NPS-CT-THU-2
Gránás, E.	OXI-CT-TUE-29
Gallet, J.-J.	OXI-CT-MON-2
Gallo, T.	OXI-CT-MON-3
Galpàsoro, O.	2DM-CT-TUE-30
Ganduglia-Pirovano, V.	MOL-P-38
Gao, D.	SCR-CT-THU-19
Gao, Y.	NAM-P-123
Garai, D.	MOL-IT-WED-19
García Rodríguez, D.	MOL-P-133
Garcia, C.	CAT-CT-WED-9
Garcia-Molina, R.	OXI-CT-WED-42
Garreau, Y.	OXI-IT-WED-41
Garreau, Y.	OXI-P-93
Geilhufe, R. M.	SCR-CT-MON-3
Gelisio, L.	SCR-CT-THU-21
Generalov, A. V.	2DM-CT-WED-45
Gerrard, N.	MRS-CT-TUE-16
Gerstmann, U.	CAT-P-10
Geurts, J.	CAT-P-120
Ghiorghiu, F.	CAT-P-129
Giaccherini, A.	OXI-CT-WED-36
Giannotti, D.	MRS-CT-TUE-17
Gibson, A.	2DM-P-25
Gierz, I.	UES-P-85
Giessibl, F. J.	2DM-P-130
Guan, X.	MRS-CT-TUE-14
Gubó, R.	MOL-P-35
Groves, M. N.	CDM-CT-MON-11
Grubišić-Čabo, A.	SCR-CT-THU-19
Grunst, M.	2DM-CT-TUE-23
Grządziel, L.	ENM-CT-MON-3
Güemes, D.	WAT-CT-TUE-11
Gianelli, L.	WAT-P-83
Gavic, A.	SCR-CT-THU-24
Gleißner, R.	OXI-CT-MON-3
Godiksen, A.	OXI-CT-TUE-31
Godsi, O.	WAT-CT-TUE-2
Gohda, Y.	SMI-CT-WED-2
Görgen, E.	SCR-P-141
Gómez-Herrero, J.	2DM-CT-MON-3
Goniakowski, J.	OXI-CT-TUE-24
Gopinath, C. S.	OXI-CT-TUE-20
Gordeev, I.	OXI-IT-TUE-19
Görling, A.	OXI-CT-MON-13
Gustafsson, J.	SEM-P-73
Haastrup, M. J.	CAT-CT-TUE-21
Gottfried, J. M.	NAM-CT-TUE-4
Gort, R.	MOL-P-132
Gotheif, K. V.	MOL-P-33
Gottfried, J. M.	MOL-CT-WED-14
Gourdon, A.	MRS-P-87
Gouzon, A.	MRS-IT-MON-3
Gouzon, A.	MRS-IT-TUE-21

Hagman, B.	CAT-CT-WED-9
Halbig, B.	CAT-CT-TUE-25
Halbritter, T.	OXI-P-93
Hamadi, A.	SCR-CT-MON-3
Halbig, B.	SEM-P-72
Halbritter, T.	MOL-CT-THU-33
Hamada, A.	SCR-P-43
Hamana, D.	SCR-P-44
Hammer, B.	ENM-CT-MON-4
Hammer, B.	OXI-CT-WED-40
Handrup, K.	SCR-CT-MON-15
Hannappel, T.	ENM-CT-MON-8
Hansen, M. F.	UES-CT-MON-3
Hansen, M. F.	SEM-CT-TUE-3
Hansen, M. F.	SEM-P-73
Hansen, M. F.	NPS-CT-THU-12
Hansen, M. F.	CDM-IT-THU-5
Hansen, O.	ELC-CT-TUE-8
Harbich, W.	CAT-P-128
Hasegawa, S.	SCR-CT-MON-2
Hashikawa, Y.	MOL-P-40
Hasselbrink, E.	SCR-P-53
Hauer, J.	ELC-CT-TUE-12
Hayashi, S.	UES-CT-MON-11
Hayun, S.	OXI-CT-MON-10
Hechiche, N.	COR-P-116
Heckel, A.	MOL-CT-THU-33
Hegemann, D.	NPS-P-75
Hein, P.	MOL-P-140
Hejral, U.	UES-CT-MON-10
Hejral, U.	CAT-CT-THU-31
Hejral, U.	CAT-CT-THU-21
Hejral, U.	CAT-CT-THU-20
Hejral, U.	OXI-CT-WED-37
Hellman, A.	CAT-CT-WED-12
Hellwig, R.	CAT-CT-THU-24
Hellwig, R.	SCR-CT-MON-3
Hellwig, R.	SCR-P-51
Hellwig, R.	MRS-IT-TUE-13
Henkel, P.	MOL-CT-THU-35
Henry, C. R.	NPS-CT-THU-9
Heo, J.	NAM-CT-WED-12
Hogan, P. E.	OXI-P-128
Holst, B.	ENM-P-124
Holst, B.	ENM-P-125
Holst, B.	ENM-P-126
Holt, A. J.	ENM-P-127
Hong, J. A.	ENM-P-128
Hornekær, L.	ENM-P-129
Hornig, P. E.	ENM-P-130
Hornig, P. E.	ENM-P-131
Hornig, P. E.	ENM-P-132
Hornig, P. E.	ENM-P-133
Hornig, P. E.	ENM-P-134
Hornig, P. E.	ENM-P-135
Hornig, P. E.	ENM-P-136
Hornig, P. E.	ENM-P-137
Hornig, P. E.	ENM-P-138
Hornig, P. E.	ENM-P-139
Horstmann, J. G.	ENM-P-140
Houdoux, D.	ENM-P-141
Houplin, J.	ENM-P-142
Howard-Smith, K. J.	ENM-P-143
Hozák, P.	ENM-P-144

Hu, X.	OXI-CT-TUE-20
Hu, Z.	ELC-P-62
Hu, X.-M.	NAM-CT-WED-11
Huang, H. -H.	CAT-P-121
Huang, J.	SCR-CT-MON-11
Huang, J.	CAT-P-9
Huang, X.-M.	2DM-P-27
Huang, Y.	2DM-P-28
Huang, J.	2DM-CT-MON-14
Huang, J.	MRS-IT-MON-9
Huang, K.	SEM-P-136
Huang, Y.	2DM-P-104
Huang, Y.	ENM-P-115
Huang, Y. -Z.	2DM-P-32
Hübener, H.	UES-IT-MON-1
Huck, C.	NPS-IT-THU-1
Huder, L.	2DM-CT-MON-10
Huff, T.	SEM-CT-TUE-1
Hulva, J.	WAT-CT-TUE-8
Hulva, J.	WAT-CT-TUE-9
Hulva, J.	OXI-CT-MON-11
Hunvik, K.	SCR-P-134
Husanu, M. A.	OXI-CT-MON-12
Hussain, H.	OXI-CT-MON-14
Hussain, T.	WAT-CT-TUE-4
Huth, M.	OXI-P-100
Huxter, W. S.	UES-CT-MON-5
Hval, H. H.	SEM-P-136
Ilimori, T.	CAT-P-99
Im, S. M.	CAT-CT-THU-19
Imabayashi, T.	SEM-CT-TUE-8
Isomura, N.	NAM-P-64
Ivashenko, O.	CAT-CT-THU-18
Iwane, M.	MOL-P-34
Iwaoka, M.	NPS-CT-THU-8
Jaganathan, R.	SAC-CT-THU-10
Jakobsen, R.	MOL-P-92
Jakub, Z.	SCR-CT-THU-26
Jany, B.	WAT-CT-TUE-8

Jauernik, S.	MOL-P-140 UES-CT-MON-10
Jeckelmann, E.	UES-P-113
Jenkins, S. J.	2DM-CT-MON-8
Jensen, P. A.	SAC-CT-THU-8 SAC-CT-THU-7 SAC-P-139
Jeon, B.	NAM-P-67
Jethwa, S.	MOL-P-132
Jia, J.	PL-5
Jiang, B.	ENM-P-115
Jiang, H.	ENM-P-97
Jiang, L.	SCR-CT-MON-13
Jiang, S. P.	ELC-CT-TUE-9
Jiang, Y.	WAT-CT-THU-15 MRS-IT-MON-7
Jiang, Z.	2DM-P-104 ENM-P-114
Jiricek, P.	SEM-P-73
Johánek, V.	OXI-CT-MON-8
Johansson, I.	SEM-CT-TUE-9
Johansson, N.	CAT-CT-THU-27 SCR-CT-MON-10
Jones, A.	2DM-P-25
Jones, L.	NAM-CT-WED-11
Jones, R.	2DM-CT-TUE-26
Jørgensen, A. L.	2DM-CT-MON-4
Jørgensen, J.	2DM-CT-TUE-24
Jørgensen, M. R. V.	SCR-CT-THU-24
Joshi, R.	2DM-CT-MON-14
Jozwiak, C.	2DM-CT-TUE-25
Jugovac, M.	2DM-CT-TUE-18
Juhász, L.	OXI-CT-WED-39
Junfa, Z.	MRS-CT-TUE-15
Jung, T. A.	MOL-CT-THU-28 MOL-P-110
Junge, H.	ENM-CT-MON-5
Jurczyszyn, L.	MOL-CT-WED-15
Jurga, S.	OXI-CT-TUE-23 2DM-CT-MON-9
K	
Kachel, S. R.	MRS-P-87
Kadodwala, M.	NPS-IT-THU-6
Kahlhoefer, F.	CDM-IT-THU-6
Kahn, M.	ENM-CT-MON-1 NPS-CT-THU-16
Kais, H.	SCR-P-43 SCR-P-44
Kajiwara, T.	UES-CT-MON-11
Kaku, M.	NAM-P-68
Kalita, G.	2DM-CT-TUE-19

Kamber, U.	2DM-CT-WED-41
Kamrla, R.	UES-CT-MON-5
Kandratsenka, A.	SCR-CT-MON-14
Kaneko, S.	SCR-CT-MON-6 UES-P-69 WAT-P-80
Kaneko, T.	2DM-CT-WED-37
Kanematu, H.	MOL-CT-TUE-6
Kantorovich, L.	MRS-IT-TUE-21
Karayel, A.	ENM-CT-MON-7
Karthäuser, S.	MOL-CT-TUE-8
Kasai, H.	ENM-CT-MON-2
Kasala, P. R.	OXI-CT-MON-13
Kasamechonchung, P.	OXI-P-14 NPS-P-77
Kastorp, C. F. P.	2DM-CT-MON-4
Kato, T.	2DM-CT-WED-37
Katoch, J.	2DM-CT-TUE-25
Katsnelson, M. I.	2DM-CT-TUE-32
Katto, M.	NAM-P-68
Kawakami, R. K.	2DM-CT-TUE-25
Kaxiras, E.	CAT-CT-WED-15
Ke, C. -R.	ENM-CT-MON-9
Kebaili, N.	SCR-P-55 ENM-CT-MON-4 COR-CT-THU-3
Keller, T. F.	CAT-P-5
Kern, K.	NAM-P-123
Kettner, M.	OXI-CT-MON-8 MOL-CT-THU-30
Kevy, S. M.	UES-CT-MON-13
Khairullin, A.	SCR-P-54
Khajetoorians, A. A.	2DM-CT-TUE-32 2DM-CT-WED-41 UES-CT-MON-13 SMI-IT-WED-1
Khalakhan, I.	OXI-P-22 ELC-CT-TUE-10
Khalid, M.	OXI-P-100
Khan, S. A.	OXI-CT-MON-14
Khoroshilov, V.	SEM-CT-TUE-7
Kibsgaard, J.	ELC-CT-TUE-8
Kick, M.	OXI-CT-TUE-21
Kiejna, A.	OXI-P-21 OXI-CT-TUE-23 WAT-CT-TUE-10
Kielgast, F.	2DM-CT-TUE-30
Kiguchi, M.	MOL-P-34 MOL-P-40 MOL-CT-TUE-11 SCR-CT-MON-6 ELC-P-63 UES-P-69 WAT-P-80
Knudsen, J.	CAT-CT-THU-27 SCR-CT-MON-10 MRS-P-91
Kobata, M.	NAM-CT-TUE-3
Kobayashi, S.	UES-P-69
Kobayashi, T.	MOL-CT-TUE-6
Kobayashi, K.	NAM-CT-TUE-3
Kocán, P.	MOL-CT-WED-15 MOL-CT-WED-17
Koch, R. J.	2DM-CT-TUE-25 NAM-P-65
Koczowski, W.	2DM-CT-WED-42 SCR-P-58
Köhler, U.	SCR-P-52
Koike, M.	MOL-CT-TUE-11
Kokkonen, E.	MRS-P-91
Koller, V.	CAT-CT-TUE-4
Kolodziej, J.	UES-CT-MON-7
Kolsbjerg, E. L.	SCR-CT-MON-15
Koltsov, A.	OXI-P-17
Komarov, N.	SCR-P-60
Komori, F.	UES-CT-MON-11
Kondo, T.	CAT-CT-THU-19 ELC-CT-TUE-7
Kondoh, H.	CAT-CT-THU-27
Kónya, Z.	CAT-CT-THU-17 2DM-CT-TUE-23 OXI-CT-TUE-33 2DM-P-29
Kopciuszynski, M.	2DM-CT-MON-15
Köpfle, N.	CAT-CT-THU-30
Korecki, J.	2DM-CT-MON-9
Korolev, V.	SCR-CT-THU-28 SCR-CT-THU-30
Koskamp, C.	CAT-P-129
Koski, T.	CDM-IT-THU-6
Kosto, J.	OXI-CT-MON-18 ELC-CT-TUE-10
Kleinschmidt, P.	SEM-P-73 MOL-CT-WED-14 MRS-P-87 SEM-CT-TUE-3
Kothe, M.	MOL-CT-WED-14
Klimovskikh, I. I.	NPS-CT-THU-12 2DM-CT-TUE-29
Klös, G.	NPS-CT-THU-5
Klötzer, B.	CAT-CT-THU-30
Klyatskaya, S.	MRS-IT-TUE-13
Klyushin, A.	SCR-CT-MON-4
Knecht, P.	MOL-CT-WED-16
Knez, D.	NPS-CT-THU-3 NPS-CT-THU-10
Knol, E. J.	UES-CT-MON-13
Knop-Gericke, A.	SCR-CT-MON-4 SCR-CT-THU-32
Krausert, K.	OXI-CT-MON-2 OXI-CT-MON-3 2DM-CT-TUE-30
Kraushofer, F.	WAT-CT-TUE-9
Kräuter, J.	SCR-P-48
Krawiec, M.	2DM-CT-MON-15
Krishna, S.	UES-P-71
Kroes, G. -J.	SCR-CT-MON-8
Krok, F.	SEM-CT-TUE-6
Kropp, T.	OXI-CT-MON-9
Krug, C. K.	MOL-CT-WED-14
Kruk, A.	SEM-CT-TUE-6
Krysztal, O.	SEM-CT-TUE-6
Krzywiecki, M.	MOL-P-35
Kuang, G.	MRS-IT-MON-2
Kubsky, S.	SCR-P-52
Küchle, J. T.	OXI-CT-MON-11
Kuhlenbeck, H.	OXI-P-103 SCR-P-111 OXI-CT-MON-6
Kuhness, D.	OXI-CT-TUE-32 2DM-CT-MON-16
Kuhnke, K.	NAM-P-123
Kullgren, J.	SCR-P-45
Kunisada, Y.	SCR-CT-MON-2
Küpper, K.	OXI-CT-MON-4
Kuroda, K.	UES-CT-MON-11
Kuświk, P.	2DM-CT-WED-42
Kutnyakhov, D.	NAM-CT-TUE-4
L	
Lackner, F.	NPS-CT-THU-3 NPS-CT-THU-10
Lackner, M.	SCR-P-53
Lackner, P.	OXI-CT-TUE-27
Lacovig, P.	2DM-CT-WED-40 2DM-CT-MON-5 2DM-CT-WED-43 2DM-CT-WED-44 UES-CT-MON-2 UES-P-85
Lafosse, A.	WAT-CT-THU-14
Lamagni, P.	CAT-P-9 ELC-P-62
Lambrick, S.	NAM-CT-WED-10
Lančok, J.	OXI-P-22
Langhammer, D.	SCR-P-45
Langsdorf, D.	OXI-CT-WED-42
Larciprete, R.	2DM-CT-MON-5 2DM-CT-WED-44
Lasserus, M.	NPS-CT-THU-3 NPS-CT-THU-10
Lau, J. A.	MOL-CT-TUE-12 UES-CT-MON-4 NPS-CT-THU-16
Launay, J.	OXI-CT-MON-1 OXI-CT-WED-45 OXI-P-20
Lauritsen, J. V.	CAT-P-3 OXI-P-12 OXI-CT-TUE-25 OXI-P-19
Lauter, V.	SCR-CT-THU-24
Lauwaet, K.	NPS-CT-THU-2 WAT-CT-TUE-3
Lazarev, S.	CAT-P-5
Le Moal, S.	NPS-CT-THU-9
Le Ster, M.	2DM-CT-TUE-31
Leake, S.	CAT-P-5
Lebon, E.	NPS-CT-THU-16
Leccese, M.	SAC-CT-THU-8
Lechermann, F.	OXI-CT-MON-12
Lee, D.	ENM-P-126 ENM-P-127
Lee, H.	CAT-P-1 CAT-P-2 CAT-P-99
Lee, T. -L.	2DM-CT-MON-4 MOL-CT-WED-16 OXI-CT-MON-11
Legrand, B.	CAT-CT-WED-13
Leiko, O.	OXI-CT-MON-18
Leisner, T.	WAT-P-138
Lelaidier, T.	MOL-CT-WED-23
Leon, C.	NAM-P-123
Leong, J. X.	ENM-CT-MON-2
Leoni, T.	MOL-CT-WED-23
Leroy, F.	NAM-CT-TUE-7 NPS-CT-THU-9
Leung, L.	SCR-CT-MON-11
Levy, S. M.	CDM-IT-THU-5
Lewandowski, M.	OXI-CT-TUE-23 2DM-CT-MON-9
Lewis, D. J.	2DM-CT-TUE-26 ENM-CT-MON-9
Li Bassi, A.	2DM-CT-TUE-33 MOL-CT-THU-26 NPS-P-76
Li, F.	CAT-CT-THU-22
Li, H.	MRS-IT-TUE-11
Li, J.	ENM-P-96 ENM-P-114
Li, S.	SCR-IT-MON-1 OXI-CT-WED-45
Li, T.	OXI-P-20
Li, X.	2DM-CT-TUE-26
Li, Z.	73

Liang, Z.	SCR-IT-MON-1
Libisch, F.	SCR-CT-MON-8
Libuda, J.	SCR-CT-MON-5 ELC-CT-MON-1 ELC-CT-MON-2
Lim, D.	ENM-P-125
Lin, C.	WAT-CT-TUE-2
Lin, C. -Y.	2DM-P-32
Lin, D. -S.	2DM-P-32
Lin, J. -L.	SCR-P-46
Lin, N.	MRS-IT-MON-2
Lin, T.	MRS-IT-TUE-13
Lincoln, C. N.	ELC-CT-TUE-12
Linderoth, T. R.	MOL-P-132
Lindsay, R.	WAT-CT-TUE-4
Lion, J.	SCR-P-55 COR-CT-THU-3
Lis, J.	UES-CT-MON-7
Liu, H.	CAT-CT-THU-23 OXI-CT-MON-1 OXI-CT-TUE-28 2DM-CT-MON-12
Liu, L.	NPS-CT-THU-15
Liu, Y.	CAT-CT-THU-26 OXI-CT-MON-6
Liu, Z.	UES-CT-MON-10
Liwei, Z.	MRS-P-119
Lizzit, D.	2DM-CT-WED-40 2DM-CT-MON-5 2DM-CT-WED-43 2DM-CT-WED-44 UES-CT-MON-2 UES-P-85
Lizzit, S.	2DM-CT-WED-40 2DM-CT-MON-5 2DM-CT-WED-43 2DM-CT-WED-44 UES-CT-MON-2 UES-P-85
Lloyd, J. A.	SCR-CT-MON-13
Lobo-Checa, J.	MOL-CT-THU-28
Locatelli, A.	2DM-CT-MON-10
Lock, N.	CAT-P-9 ELC-P-62
Lodesani, A.	OXI-CT-TUE-31
Lombana, A.	MOL-P-38
Longo, D.	MOL-CT-THU-32 MOL-P-109
Loppacher, C.	MOL-P-38
Lounis, A.	SCR-P-44
Lu, H.	MOL-CT-TUE-1 MOL-P-133

Lubben, O.	OXI-P-18
Lucaßen, D.	SCR-P-53
Lund, H. E.	2DM-CT-WED-40 UES-CT-MON-13
Lundgren, E.	CAT-CT-THU-31 CAT-CT-THU-28 CAT-CT-WED-9 CAT-CT-THU-21 CAT-CT-THU-25 CAT-CT-THU-20 OXI-CT-WED-37 OXI-P-93
Lustemberg, P.	CAT-CT-TUE-4
Luy, J. -N.	MOL-P-33
Lyalin, A.	MOL-P-37
Lykhach, Y.	ELC-CT-MON-1 ELC-CT-MON-2
Lyo, I. -W.	2DM-P-23
M	
Ma, H.	MRS-CT-TUE-14
Maccarini, M.	SCR-CT-MON-16
MacLaren, D.	COR-CT-THU-3
MacLeod, J.	MOL-IT-THU-29
Maddii Fabiani, L.	2DM-CT-MON-7
Madej, E.	2DM-CT-MON-9
Maerkl, T.	2DM-CT-TUE-31
Mayor, M.	MOL-CT-TUE-1
Magaud, L.	2DM-CT-MON-10
Magnussen, O. M.	NAM-CT-TUE-6
Mahajan, I. V.	2DM-CT-TUE-31
Mahatha, S. K.	2DM-CT-WED-38 2DM-CT-WED-40 2DM-CT-WED-43 SEM-CT-TUE-2 UES-CT-MON-2
Mayr-Schmöller, W.	OXI-CT-WED-44
Mazzola, F.	CDM-CT-THU-9
McBreen, P.	MRS-CT-TUE-17
McGuinness, C.	MOL-P-37
Maier, M.	MOL-CT-THU-36 MRS-CT-TUE-20
Maier, S.	MOL-IT-THU-24
Majchrzak, P.	UES-CT-MON-2
Majer, K.	MOL-CT-WED-17
Malahat, N. N.	COR-P-98
Malcioglu, O. B.	MOL-CT-THU-27
Man, T. H.	ENM-P-124
Mandziak, A.	OXI-CT-TUE-26
Manini, N.	MOL-CT-THU-26
Manson, J. R.	2DM-CT-MON-16
Mapanao, A. -K.	NPS-CT-THU-7
Mariani, C.	MOL-P-42
Marjo, C.	NPS-P-76
Marković, I.	UES-CT-MON-2
Markus, T.	MOL-CT-THU-30
Maroun, F.	NAM-CT-TUE-6
Mårtensson, N.	MOL-P-37

Martin, F.	2DM-CT-MON-3 MOL-CT-WED-21 SCR-CT-THU-25 MRS-CT-TUE-19
Martin, N. M.	CAT-CT-WED-9 CAT-CT-THU-25
Martinazzo, R.	2DM-CT-MON-5 SAC-CT-THU-8 SAC-CT-THU-9
Martinez-Pastor, J. P.	2DM-CT-TUE-34
Martin-Jiménez, A.	NPS-CT-THU-2 MOL-CT-WED-22
Martins, M.	2DM-CT-TUE-30
Mašek, K.	OXI-CT-MON-18
Maslakov, K.	SCR-CT-THU-30
Masuda, T.	MOL-CT-TUE-6
Matera, S.	CAT-CT-THU-28
Matolín, V.	OXI-P-22 ELC-CT-MON-2 ELC-CT-TUE-10
Matsumoto, K.	NAM-P-68
Matsushita, T.	NAM-CT-TUE-2
Matvija, P.	MOL-CT-WED-15
Madej, E.	OXI-P-102
Maerkl, T.	2DM-CT-TUE-1
Mayor, M.	OXI-CT-TUE-27
Magnussen, O. M.	ELC-CT-MON-1
Mahajan, I. V.	2DM-CT-TUE-31
Mahatha, S. K.	2DM-CT-WED-38 2DM-CT-WED-40 2DM-CT-WED-43 SEM-CT-TUE-2 UES-CT-MON-2
Mayr-Schmöller, W.	OXI-CT-WED-44
Mazzola, F.	CDM-CT-THU-9
McBreen, P.	MRS-CT-TUE-17
McGuinness, C.	MOL-P-37
Maier, M.	MOL-CT-THU-36 MRS-CT-TUE-20
Maier, S.	MOL-IT-THU-24
Majchrzak, P.	UES-CT-MON-2
Majer, K.	MOL-CT-WED-17
Malahat, N. N.	COR-P-98
Malcioglu, O. B.	MOL-CT-THU-27
Man, T. H.	ENM-P-124
Mandziak, A.	OXI-CT-TUE-26
Manini, N.	MOL-CT-THU-26
Manson, J. R.	2DM-CT-MON-16
Mapanao, A. -K.	NPS-CT-THU-7
Mariani, C.	MOL-P-42
Marjo, C.	NPS-P-76
Marković, I.	UES-CT-MON-2
Markus, T.	MOL-CT-THU-30
Maroun, F.	NAM-CT-TUE-6
Mårtensson, N.	MOL-P-37
Martín, F.	2DM-CT-MON-3 MOL-CT-WED-21 SCR-CT-THU-25 MRS-CT-TUE-19
Martin, N. M.	CAT-CT-WED-9 CAT-CT-THU-25
Martinazzo, R.	2DM-CT-MON-5 SAC-CT-THU-8 SAC-CT-THU-9
Martinez-Pastor, J. P.	2DM-CT-TUE-34
Martin-Jiménez, A.	NPS-CT-THU-2 MOL-CT-WED-22
Martins, M.	2DM-CT-TUE-30
Mašek, K.	OXI-CT-MON-18
Maslakov, K.	SCR-CT-THU-30
Masuda, T.	MOL-CT-TUE-6
Matera, S.	CAT-CT-THU-28
Matolín, V.	OXI-P-22 ELC-CT-MON-2 ELC-CT-TUE-10
Matsumoto, K.	NAM-P-68
Matsushita, T.	NAM-CT-TUE-2
Matvija, P.	MOL-CT-WED-22
Madej, E.	OXI-P-102
Maerkl, T.	2DM-CT-TUE-1
Mayor, M.	OXI-CT-TUE-27
Magnussen, O. M.	ELC-CT-MON-1
Mahajan, I. V.	2DM-CT-TUE-31
Mahatha, S. K.	2DM-CT-WED-38 2DM-CT-WED-40 2DM-CT-WED-43 SEM-CT-TUE-2 UES-CT-MON-2
Mayr-Schmöller, W.	OXI-CT-WED-44
Mazzola, F.	CDM-CT-THU-9
McBreen, P.	MRS-CT-TUE-17
McGuinness, C.	MOL-P-37
Maier, M.	MOL-CT-THU-36 MRS-CT-TUE-20
Maier, S.	MOL-IT-THU-24
Majchrzak, P.	UES-CT-MON-2
Majer, K.	MOL-CT-WED-17
Malahat, N. N.	COR-P-98
Malcioglu, O. B.	MOL-CT-THU-27
Man, T. H.	ENM-P-124
Mandziak, A.	OXI-CT-TUE-26
Manini, N.	MOL-CT-THU-26
Manson, J. R.	2DM-CT-MON-16
Mapanao, A. -K.	NPS-CT-THU-7
Mariani, C.	MOL-P-42
Marjo, C.	NPS-P-76
Marković, I.	UES-CT-MON-2
Markus, T.	MOL-CT-THU-30
Maroun, F.	NAM-CT-TUE-6
Mårtensson, N.	MOL-P-37
Migdal, N.	OXI-CT-TUE-23
Michaut, X.	SAC-CT-THU-5
Michel, E. G.	2DM-CT-MON-3
Michely, T.	2DM-CT-TUE-22
Michiardi, M.	2DM-CT-WED-38 2DM-CT-WED-44
Milani, A.	MOL-CT-THU-26
Miłosz, Z.	OXI-CT-TUE-23
Miranda, R.	2DM-CT-MON-9
Minissale, M.	ENM-CT-MON-6
Miola, M.	CAT-P-9
Miranda, R.	2DM-CT-MON-2
Minet-Artes, S.	ENM-CT-MON-5
Mishra, M.	NPS-CT-THU-2
Mishra, N.	WAT-CT-TUE-3
Mitev, P.	MRS-CT-TUE-19
Mittendorfer, F.	2DM-CT-TUE-29
Miwa, J. A.	SCR-CT-MON-16
Miret-Artes, S.	UES-P-71
Mishra, M.	SCR-CT-MON-17
Mishra, N.	SCR-P-45
Mittendorfer, F.	OXI-CT-WED-43
Miwa, J. A.	2DM-P-25
Miret-Artes, S.	2DM-CT-WED-38
Mishra, M.	2DM-CT-WED-40
Mishra, N.	2DM-CT-WED-41
Mitrovic, S.	NAM-CT-TUE-4
Mitrovic, S.	SEM-CT-TUE-2
Mitrovic, S.	SMI-CT-WED-2
Mitrovic, S.	SEM-CT-TUE-3
Mitrovic, S.	MOL-CT-THU-38
Mitrovic, S.	2DM-P-31
Mitrovic, S.	2DM-P-106
Mitrovic, S.	OXI-CT-MON-6
Mitrovic, S.	2DM-CT-MON-3
Mitrovic, S.	MOL-CT-WED-21
Mitrovic, S.	MRS-CT-TUE-19
Mitrovic, S.	WAT-P-138
Mitrovic, S.	OXI-CT-MON-8
Mitrovic, S.	ELC-CT-MON-2
Mitrovic, S.	2DM-CT-MON-16
Mitrovic, S.	NPS-IT-THU-1
Mitrovic, S.	2DM-CT-WED-41
Mitrovic, S.	NGANKEU, A. S.
Mitrovic, S.	UES-IT-MON-1
Mitrovic, S.	WAT-CT-TUE-4
Mitrovic, S.	MOL-CT-TUE-5
Mitrovic, S.	CDM-IT-THU-5
Mitrovic, S.	CAT-CT-WED-10
Mitrovic, S.	CAT-CT-WED-11
Mitrovic, S.	MOL-CT-WED-21
Mitrovic, S.	OXI-CT-TUE-24
Mitrovic, S.	Nilsius, N.
Mitrovic, S.	OXI-CT-TUE-24
Mitrovic, S.	OSSIÁKÓ, A.
Mitrovic, S.	CAT-CT-THU-17
Mitrovic, S.	PL-2
Mitrovic, S.	ELC-P-120
Mitrovic, S.	MOL-CT-WED-18
Mitrovic, S.	CAT-CT-WED-13
Mitrovic, S.	MOL-CT-THU-28
Mitrovic, S.	2DM-CT-TUE-29
Mitrovic, S.	OXI-P-100
Mitrovic, S.	NAM-P-65
Mitrovic, S.	MOL-CT-WED-14
Mitrovic, S.	NAM-CT-TUE-7
Mitrovic, S.	OXI-CT-MON-5
Mitrovic, S.	ELC-CT-TUE-12
Mitrovic, S.	MOL-CT-THU-30
Mitrovic, S.	NAM-CT-TUE-11
Mitrovic, S.	SEM-P-136
Mitrovic, S.	OXI-CT-TUE-24
Mitrovic, S.	OXI-CT-TUE-20
Mitrovic, S.	MOL-P-38
Mitrovic, S.	WAT-P-118
Mitrovic, S.	PL-6
Mitrovic, S.	NØRSKOV, J.
Mitrovic, S.	OXI-CT-MON-18
Mitrovic, S.	SEM-P-135
Mitrovic, S.	MOL-P-132
Mitrovic, S.	OXI-P-14
Mitrovic, S.	MOL-CT-THU-30
Mitrovic, S.	SEM-CT-TUE-2
O	
O'Brien, C. P.	CAT-CT-TUE-2
O'Brien, P.	ENM-CT-MON-9
O'Brien, P.	2DM-CT-TUE-26
Ochoa, H.	2DM-CT-TUE-29
Oelke, R.	SEM-CT-TUE-5
Ogawa, S.	SCR-CT-MON-4
Ogawa, S.	SCR-P-56
Ogawa, Y.	NAM-P-68
Ogura, S.	

Otero, R.	2DM-CT-MON-2 MOL-CT-WED-22 NPS-CT-THU-2
Otrokov, M.	2DM-CT-TUE-29
Ouchelli, Y.	COR-P-116
Óvári, L.	2DM-CT-TUE-23
Over, H.	OXI-CT-WED-42 CAT-CT-TUE-4
Ozaki, T.	SCR-P-56
Ozawa, T.	SCR-CT-MON-12
P	
Pabisiak, T.	OXI-CT-TUE-23 WAT-CT-TUE-10
Pacchioni, G.	2DM-CT-MON-16
Paier, J.	OXI-CT-MON-9 OXI-CT-WED-45 OXI-P-20
Paintner, T.	MRS-IT-TUE-13
Pakes, C.	SEM-CT-TUE-4
Pal, S.	NPS-P-79
Palacio-Morales, A.	MOL-CT-THU-32 MOL-P-109
Palma, C. A.	MRS-IT-TUE-13
Palotas, J.	SAC-CT-THU-10
Palotás, K.	OXI-CT-TUE-23
Palussiere, S.	ENM-CT-MON-1
Panaccione, G.	MOL-CT-TUE-5
Panahi, M.	2DM-CT-MON-6
Pandey, A. D.	2DM-CT-TUE-30
Panighel, M.	2DM-CT-TUE-18
Pantazidis, G.	SAC-P-139
Pantzer, J.	OXI-CT-TUE-30
Paolucci, F.	ELC-CT-TUE-10
Papageorgiou, A. C.	SCR-CT-MON-13 MOL-CT-WED-16
Papp, C.	2DM-CT-TUE-21
Para, F.	MOL-P-38
Parditka, B.	OXI-CT-WED-39
Park, J. H.	COR-P-74
Park, J. M.	COR-P-74
Park, S. R.	2DM-P-23
Parkinson, G. S.	WAT-CT-TUE-8 WAT-CT-TUE-9 OXI-CT-MON-11
Parrain, J. -L.	MOL-P-38
Pascual, J.	MRS-IT-TUE-11
Passeggi, M.	2DM-P-26
Paßens, M.	MOL-CT-TUE-8
Passerone, D.	MOL-CT-TUE-9
Passoni, M.	2DM-CT-TUE-33
Pastore, G.	SCR-CT-THU-18

Paszkiewicz, M.	NAM-P-65 MRS-IT-TUE-13
Paszuk, A.	SEM-CT-TUE-3
Patera, L.	2DM-CT-TUE-18
Patra, N.	OXI-CT-MON-14
Pauly, F.	MOL-CT-THU-36
Pavelec, J.	WAT-CT-TUE-8
Pavlov, A.	SMI-P-86
Pavlova, T.	OXI-CT-TUE-22 SCR-P-60
Payne, D. J.	OXI-CT-MON-11
Pedersen, B. L.	ELC-P-62
Pedersen, S. U.	ELC-P-62
P	
Peifer, R.	MOL-P-133
Peña, D.	MRS-IT-TUE-11
Penschke, C.	WAT-CT-TUE-5
Penuelas, J.	SCR-CT-THU-19
Peressi, M.	2DM-CT-TUE-18
Pérez, E. M.	MOL-CT-WED-21 MRS-CT-TUE-19
Petit, C.	CAT-CT-THU-23
Petrov, V. N.	SMI-P-86
Pfaff, S.	CAT-CT-THU-31 CAT-CT-THU-28
Pfnür, H.	MOL-CT-TUE-10
Pham, T. A.	MRS-CT-TUE-14
Picone, A.	OXI-CT-TUE-31 2DM-CT-MON-11 MOL-CT-TUE-5
Pieczyrak, B.	MOL-CT-WED-15
Pielsticker, L.	CAT-CT-WED-16
Pietrzyńska, M.	SCR-P-58
Pignedoli, C. A.	MOL-CT-TUE-9
Pinming, C.	NPS-CT-THU-11
Pirie, H.	2DM-CT-TUE-31
Pirou, A.	MRS-CT-TUE-20
Pirronello, V.	SAC-IT-THU-1
Pisarra, M.	2DM-CT-MON-3 MOL-CT-WED-21 MRS-CT-TUE-19
Planer, J.	OXI-CT-WED-43 OXI-CT-WED-44
Plessow, P. N.	CAT-CT-WED-12
Płucienik, A.	OXI-CT-MON-6 OXI-P-103
Pocovi-Martínez, S.	CAT-CT-THU-33 NPS-CT-THU-7

Polanyi, J. C.	SCR-CT-MON-11
Polley, C.	CDM-CT-THU-9 2DM-P-130
Pölt, P.	NPS-CT-THU-3
Patra, N.	2DM-CT-MON-10
Pauly, F.	2DM-P-131
Pavelec, J.	MOL-CT-THU-28
Pavlov, A.	OXI-P-14
Pavlova, T.	CAT-CT-WED-9 SCR-CT-MON-3
Pawroźnik, P.	MOL-P-35
Porntreeraphat, S.	OXI-CT-WED-43 OXI-CT-WED-44
Posada-Borbón, A.	MRS-P-91
P	
Prakash, R.	NAM-CT-WED-11 OXI-P-100
Preobrajenski, A. B.	SCR-CT-MON-13
Presel, F.	UES-CT-MON-10
Prabhu, M. K.	CAT-P-10 CAT-P-129
P	
Prakash, R.	OXI-CT-WED-36
Peiffer, R.	WAT-P-118
Peña, D.	MOL-P-37
Penzschke, C.	MOL-CT-WED-18
Penuelas, J.	2DM-CT-WED-44
Peressi, M.	NAM-CT-TUE-4
Prieto, J. E.	OXI-CT-TUE-26
Prieto, P.	OXI-CT-TUE-26
Prince, K. C.	ELC-CT-MON-2
Protsenko, P.	SCR-CT-THU-28 SCR-CT-THU-30
Przychodnia, M.	2DM-CT-WED-42
Pucci, A.	NPS-IT-THU-1
Puppin, M.	UES-IT-MON-1
Pusterhofer, M.	2DM-P-24 2DM-CT-TUE-28
Puyo, M.	NPS-CT-THU-16
Q	
Qian, Y.	2DM-P-104
Quan, J.	CAT-CT-THU-19
Quesada, A.	OXI-CT-TUE-26
Quintero Riascos, V.	SCR-P-141
R	
Raaen, S.	SCR-P-134
Rabia, A.	MOL-CT-THU-26
Radovic, M.	OXI-CT-MON-12
Rafaj, Z.	OXI-CT-MON-8
Rahman, R.	CDDM-CT-THU-9
Rajput, P.	OXI-CT-MON-14
Rameshan, C.	SCR-CT-THU-18
Rameshan, R.	CAT-CT-THU-30
Ramezani, A. H.	COR-CT-THU-1
Ranguis, A.	MOL-CT-WED-23
Raschke, H.	WAT-P-118
Rashidi, M.	SEM-CT-TUE-1
Rattigan, E.	CAT-P-3

Rauls, E.	MOL-P-39 NAM-P-65
Ravndal, A.	MOL-P-39
Rechciński, R.	2DM-P-130
Rechmann, J.	MOL-P-35
Redinger, J.	OXI-CT-WED-43 OXI-CT-WED-44
R	
Rehman, F.	MRS-P-91
Rehman, S. U.	NAM-CT-WED-11 OXI-P-100
Reichert, J.	SCR-CT-MON-13
Reikowski, F.	NAM-CT-TUE-6
Renard, V.	2DM-CT-MON-10
Resta, A.	CAT-CT-THU-21
Rettig, L.	UES-IT-MON-1
Reuter, K.	CAT-CT-TUE-3 CAT-CT-TUE-21
Reutzel, M.	SCR-CT-THU-22
Ricard, A.	NAM-P-67
Richard, M. -I.	CAT-P-5
Rinaldi, M.	SCR-CT-THU-18
Riva, M.	OXI-CT-WED-35
Robach, O.	NPS-CT-THU-9
Robert, M.	ENM-IT-MON-10
Rochet, F.	CAT-CT-THU-23 OXI-CT-TUE-28
R	
Rochford, L. A.	MOL-CT-WED-16 OXI-CT-MON-11
Rodin, A. O.	SCR-P-54
Roditchev, D.	2DM-CT-MON-10 2DM-P-131
Rodríguez-Fernández, J.	CAT-P-3
S	
Saba, N.	SCR-P-44
Sabba, N.	SCR-P-43
Sacchi, M.	2DM-CT-MON-8
Sack, C.	CAT-CT-TUE-4
Sadi, F.	CAT-P-4
Sadowski, J. T.	OXI-CT-MON-7 2DM-CT-TUE-24
Saeid, A.	NPS-CT-THU-13
Sağlam, Ö.	SCR-CT-MON-13
Saint-Lager, M. -C.	NPS-CT-THU-9
Saito, M.	MOL-P-34
Sakaguchi, N.	SCR-CT-MON-2
Sakamoto, K.	NPS-CT-THU-8
Sakamoto, S.	2DM-P-30
Sala, A.	2DM-CT-MON-17 2DM-CT-TUE-18
Salmeron, M.	WAT-IT-TUE-6
Salter, T.	SAC-CT-THU-3
Salzemann, C.	CAT-CT-THU-23
Sambi, M.	MOL-P-42
Samsonov, V. M.	SCR-CT-THU-28 SCR-CT-THU-27
S	
Rohde, G.	UES-P-85
Rojaz, M.	SCR-CT-THU-18
Roling, S.	SAC-CT-THU-5
Romanyuk, O.	SEM-P-73
Ropers, C.	UES-CT-MON-8
Rostawska, A.	NAM-P-123
Rosmi, M. S.	2DM-CT-TUE-19
Rossi, C.	ENM-CT-MON-1
Rossnagel, K.	NAM-CT-TUE-4 UES-CT-MON-8
Rostami, H.	2DM-P-25
Rotenberg, E.	UES-CT-MON-2 2DM-CT-TUE-25 NAM-IT-TUE-1

Roth, T.	MRS-CT-TUE-20
Rougemaille, N.	2DM-CT-MON-10
Rouviere, J. -L.	2DM-CT-MON-10
Roy, C.	ELC-CT-TUE-8
Royer, S.	MOL-CT-THU-32 MOL-P-109
S	
Rozbořil, F.	MOL-CT-WED-15
Ruben, M.	MRS-IT-TUE-13
Rubio, A.	UES-IT-MON-1
Ruckhofer, A.	2DM-CT-TUE-27 2DM-CT-TUE-28
Rudenko, A. N.	2DM-CT-TUE-32
Ruffieux, P.	MOL-CT-WED-20
Ruiz-Gomez, S.	OXI-CT-TUE-26
Runge, H.	CAT-P-5
Ruppenthal, L.	MOL-CT-WED-14
Rupper, P.	NPS-P-75
Rupprechter, G.	CAT-P-6 SCR-CT-THU-18
Russo, V.	2DM-CT-TUE-33
Ruppenthal, L.	MOL-CT-THU-26
Ryan, A.	MOL-CT-WED-18
Ryan, P.	OXI-CT-MON-11
Rybkin, A. G.	2DM-CT-TUE-29
S	
Saba, N.	SCR-P-44
Sabba, N.	SCR-P-43
Sacchi, M.	2DM-CT-MON-8
Sack, C.	CAT-CT-TUE-4
Sadi, F.	CAT-P-4
Sadowski, J. T.	OXI-CT-MON-7 2DM-CT-TUE-24
Saeid, A.	NPS-CT-THU-13
Sağlam, Ö.	SCR-CT-MON-13
Saint-Lager, M. -C.	NPS-CT-THU-9
Saito, M.	MOL-P-34
Sakaguchi, N.	SCR-CT-MON-2
Sakamoto, K.	NPS-CT-THU-8
Sakamoto, S.	2DM-P-30
Sala, A.	2DM-CT-MON-17 2DM-CT-TUE-18
Salmeron, M.	WAT-IT-TUE-6
Salter, T.	SAC-CT-THU-3
Salzemann, C.	CAT-CT-THU-23
Sambi, M.	MOL-P-42
Samsonov, V. M.	SCR-CT-THU-28 SCR-CT-THU-27
S	
Rostami, H.	SCR-P-61
Sanchez Grande, A.	WAT-CT-TUE-3
Sánchez Royo, J. F.	2DM-CT-TUE-34
Sanchez, A. M.	OXI-CT-TUE-26

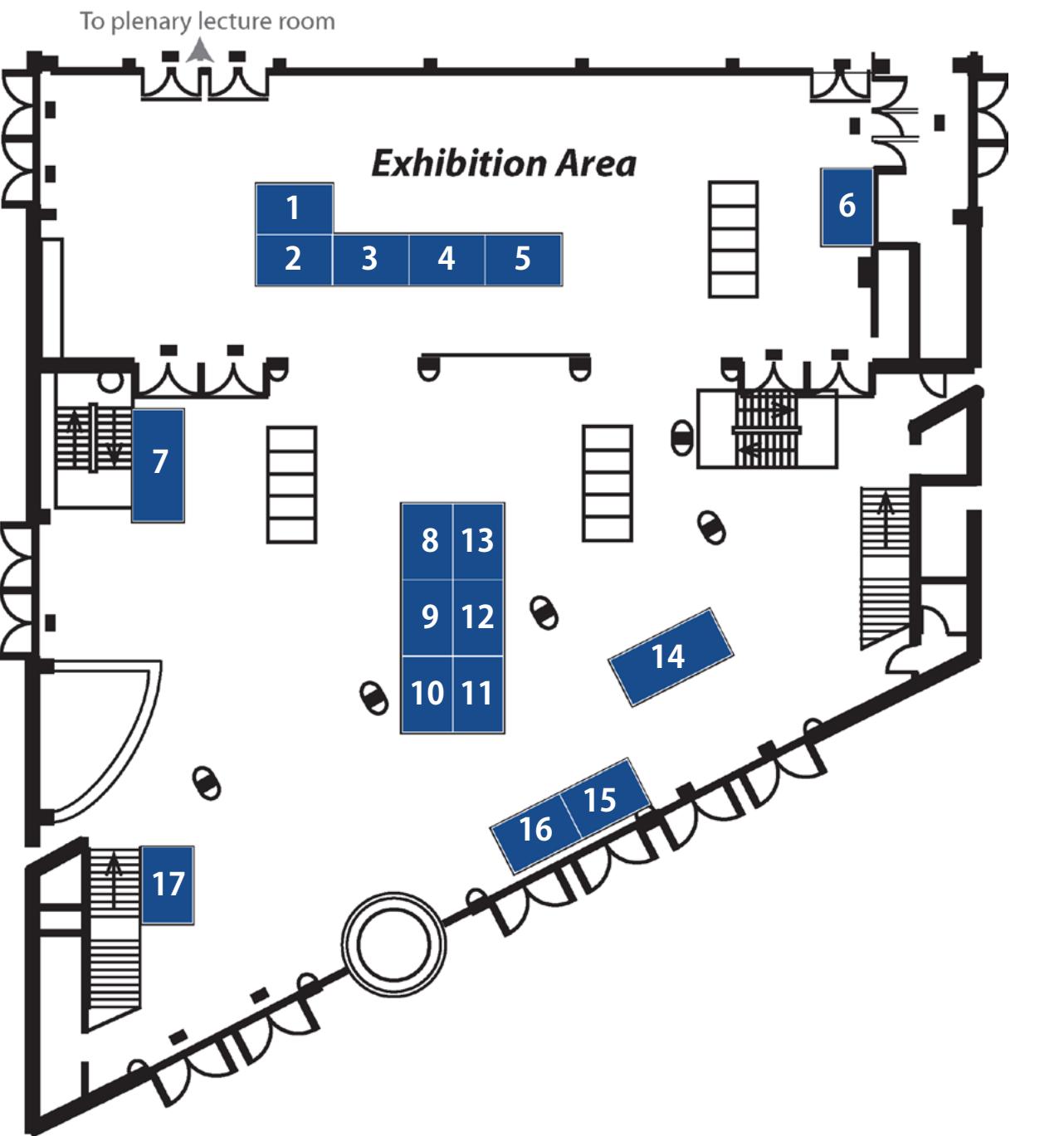
Schmid, M.	OXI-CT-WED-35 OXI-CT-TUE-27 OXI-CT-MON-16 MOL-P-33 MOL-CT-TUE-4 MOL-CT-WED-14 WAT-CT-TUE-8 WAT-CT-TUE-9 MRS-P-87	Setvin, M.	MOL-CT-TUE-4 OXI-CT-MON-16 WAT-CT-TUE-8 WAT-CT-TUE-9 NAM-CT-TUE-4 NPS-CT-THU-13 SCR-P-59 OXI-CT-MON-9 ELC-CT-MON-4 MRS-P-89 2DM-CT-TUE-19 CAT-CT-TUE-2 MOL-P-41 2DM-CT-WED-45 MOL-CT-WED-13 NAM-P-65 SEM-CT-TUE-5 OXI-CT-MON-12 SCR-CT-MON-10 MRS-P-90 MRS-P-91 NPS-CT-THU-3 NPS-CT-THU-10 ELC-CT-MON-1 NAM-P-65 OXI-CT-MON-6 SCR-P-52 NAM-CT-TUE-4 MOL-CT-THU-36 MOL-P-41 CAT-CT-TUE-2 SCR-CT-MON-5 NAM-CT-WED-10 UES-CT-MON-5 MOL-P-92 SCR-CT-THU-26 2DM-CT-TUE-25 SCR-CT-MON-5 OXI-CT-MON-10 MOL-CT-WED-14 MOL-CT-TUE-8 SEM-CT-TUE-4 ELC-CT-TUE-8 MOL-P-42 2DM-CT-MON-3 MRS-IT-TUE-13 SCR-CT-MON-4 OXI-CT-MON-5 MOL-CT-TUE-29 OXI-CT-TUE-29 OXI-CT-MON-7 MOL-CT-WED-18 SCR-CT-THU-18 Sekihata, Y.
Schmidt, M. C.	CAT-CT-TUE-2	Seyller, T.	CAT-P-9 ENM-CT-MON-5 CAT-P-121 OXI-P-102
Schmidt, S. B.	MOL-P-41 2DM-CT-WED-45 MOL-CT-WED-13	Šmil, B.	OXI-P-22 ELC-CT-MON-2 MOL-CT-WED-17 MOL-CT-WED-15 OXI-CT-MON-16 WAT-CT-TUE-7 NPS-P-79 CAT-CT-THU-27 2DM-CT-TUE-30 OXI-CT-MON-9 ELC-CT-MON-4 MRS-P-90 OXI-CT-MON-10 OXI-CT-TUE-7 2DM-CT-TUE-25 OXI-CT-TUE-22 ELC-CT-TUE-7 OXI-CT-MON-10 2DM-CT-TUE-29 SCR-CT-MON-12 UES-CT-MON-11 CAT-CT-THU-31 CAT-CT-THU-24 CAT-CT-THU-25 CAT-CT-THU-20 OXI-CT-WED-37 OXI-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-CT-THU-31 CAT-CT-THU-24 CAT-CT-THU-25 CAT-CT-THU-20 OXI-CT-WED-37 OXI-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-136 MOL-CT-WED-23 SCR-CT-THU-32 OXI-CT-MON-3 NPS-CT-THU-9 CAT-CT-THU-18 ELC-CT-MON-2 SCR-CT-THU-18 SAC-CT-THU-8 SAC-CT-THU-7
Schmidt, W. G.	NAM-P-65 SEM-CT-TUE-5	Sobotík, P.	OXI-CT-MON-16 MOL-CT-WED-17 MOL-CT-WED-15 OXI-CT-MON-16 WAT-CT-TUE-7 NPS-P-79 CAT-CT-THU-27 2DM-CT-TUE-30 OXI-CT-MON-9 ELC-CT-MON-4 MRS-P-90 OXI-CT-MON-10 OXI-CT-TUE-7 2DM-CT-TUE-19 CAT-CT-THU-27 2DM-CT-TUE-30 OXI-CT-TUE-22 ELC-CT-TUE-8 MOL-P-110 CAT-CT-TUE-2 MOL-P-41 ELC-CT-TUE-8 MOL-P-106 2DM-CT-TUE-21 NAM-CT-TUE-4 2DM-CT-TUE-15 MOL-P-41 2DM-P-25 UES-CT-MON-2 SEM-CT-TUE-4 MRS-CT-TUE-20 CAT-P-129 2DM-CT-WED-40 2DM-CT-WED-41 SEM-CT-TUE-2 UES-P-85 SEM-CT-TUE-9 MOL-CT-THU-38 SCR-CT-THU-24 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schmitt, T.	SCR-CT-MON-10	Shluger, A.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-136 MOL-CT-WED-23 SCR-CT-THU-32 OXI-CT-MON-3 NPS-CT-THU-9 CAT-CT-THU-18 ELC-CT-MON-2 SCR-CT-THU-18 SAC-CT-THU-8 SAC-CT-THU-7
Schnadt, J.		Shnadt, J.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schnedlitz, M.	NAM-P-90 MRS-P-91	Stange, A.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schneider, M. A.	ELC-CT-MON-1	Shvets, I. V.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schöfberger, W.	NAM-P-65	Silva, C.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schöllkopf, W.	OXI-CT-MON-6	Simonov, K. A.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Scholz, F.	SCR-P-52	Simonsen, F. D. S	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schönhense, G.	NAM-CT-TUE-4	Stierle, A.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schosser, W.	MOL-CT-THU-36	Singh, C. V.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schröder, C.	MOL-P-41 CAT-CT-TUE-2 SCR-CT-MON-5	Siri, O.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schulz, P. S.	NAM-CT-WED-10	Sirotna, A. P.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schulze, S.	UES-CT-MON-5	Sitja, G.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schumann, F. O.	OXI-CT-MON-5	Sjästad, A. O.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schwarz, A.	MOL-P-92	Skala, T.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schwarz, D.	SCR-CT-THU-26	Skov, A. W.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schwegler, J.	2DM-CT-TUE-25	Stishenko, P.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schweke, D.	SCR-CT-MON-5	Stoeckmann, J. P.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Schweyen, P.	MOL-CT-WED-14	Stoger-Pollach, M.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Scott, S. B.	ELC-CT-TUE-8	Tacca, M.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Sear, M.	SEM-CT-TUE-4	Tadich, A.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Sebök, B.	ELC-CT-TUE-8	Taga, R.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Sedona, F.	MOL-P-42	Takahashi, K.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Segovia, P.	2DM-CT-MON-3	Takakuwa, Y.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Seitsonen, A. P.	MRS-IT-TUE-13	Taketsugu, T.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Sekiha, Y.	SCR-CT-MON-4	Tacca, M.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL-CT-WED-18 SAC-CT-THU-8 SAC-CT-THU-9 SAC-CT-THU-7 SEM-P-5
Sellschopp, K.	OXI-CT-MON-5	Tamogl, A.	OXI-CT-TUE-2 MOL-P-93 SCR-CT-MON-3 MOL-P-92 SCR-CT-THU-26 CAT-CT-THU-27 MOL-CT-TUE-11 CAT-P-8 OXI-P-18 SCR-CT-THU-31 2DM-P-26 MOL-P-37 MOL

Vecchietti, J.	SCR-CT-MON-5
Veder, J. -P.	ELC-CT-TUE-9
Venvik, H. J.	CAT-CT-WED-8
Verdini, A.	UES-CT-MON-14
Verhoeven, J.	NPS-CT-THU-13
Verna, A.	OXI-CT-MON-14
Veronesi, S.	SCR-CT-MON-17
Vesborg, P. C. K	ELC-CT-TUE-8
Vesselli, E.	SCR-CT-THU-18
Vettori, M.	SCR-CT-THU-19
Vidal, R.	2DM-P-26
Vilkov, O.	SCR-P-141
Villalva, J.	2DM-CT-TUE-29
Vinai, G.	MOL-CT-WED-21
Vincent, T.	MRS-CT-TUE-19
Vinogradov, A. S.	MOL-CT-TUE-5
Visart de Bocarmé, T.	2DM-CT-MON-10
Vishwakarma, R.	2DM-P-131
Visikovskiy, A.	OXI-CT-THU-23
Vlad, A.	UES-CT-MON-11
Vladimirova, N. V.	CAT-CT-THU-21
Vlaic, S.	SCR-CT-THU-32
Vlček, J.	2DM-CT-MON-10
Voborník, I.	2DM-P-131
Voelkel, A.	OXI-P-22
Vogelgesang, S.	2DM-CT-WED-44
Vojvodic, A.	SCR-P-58
Volckaert, K.	UES-CT-MON-8
Voliani, V.	OXI-CT-TUE-25
Volkov, S.	NAM-CT-TUE-4
Voloshina, E.	UES-CT-MON-2
Volykhov, A.	CAT-CT-THU-33
Von Rohr, F.	SEM-P-135
Vondráček, M.	OXI-P-22
Vonk, V.	CAT-P-5
Vorokhta, M.	OXI-CT-MON-2
Waehler, T.	2DM-CT-TUE-30
Vrňata, M.	OXI-P-22
W	
Waehler, T.	SCR-CT-MON-5
Wagner, M.	MOL-CT-TUE-4
Wahl, P.	SMI-IT-WED-4
Wakamatsu, Y.	2DM-CT-TUE-19

Walczak, Ł.	NAM-P-66
Waldecker, L.	UES-IT-MON-1
Walls, B.	OXI-P-18
Walshe, K.	SCR-CT-THU-31
Walton, A. S.	OXI-P-18
Walton, A. S.	2DM-CT-MON-13
Walton, A. S.	ELC-CT-MON-3
Walton, A. S.	ENM-CT-MON-9
Wan, H.	CAT-CT-THU-22
Wang, B. C.	CAT-CT-THU-24
Wang, D.	MRS-IT-MON-4
Wang, S.	OXI-CT-TUE-20
Wang, T.	NAM-CT-WED-11
Wang, W.	MRS-IT-MON-9
Wang, W.	MRS-CT-TUE-15
Wang, X. T.	WAT-P-138
Wang, X. X.	CAT-CT-THU-24
Wang, Y.	2DM-CT-TUE-31
Wang, Z.	OXI-CT-TUE-21
Wang, Z.	OXI-CT-TUE-23
Wang, Z.	SCR-CT-THU-20
Wang, Z.	MRS-IT-MON-6
Wang, Z.	MRS-IT-MON-8
Wang, Z.	ENM-P-114
Ward, D. J.	2DM-CT-WED-36
Ward, D. J.	NPS-CT-THU-15
Ward, D. J.	ENM-P-114
Ward, D. J.	SCR-CT-THU-23
Warner, J. H.	MOL-CT-TUE-12
Wasserscheid, P.	NAM-CT-WED-10
Watanabe, K.	UES-CT-MON-4
Warner, J. H.	2DM-CT-WED-35
Wasserscheid, P.	SCR-CT-MON-5
Watanabe, K.	SCR-P-50
Watanabe, N.	SAC-IT-THU-1
Weaver, J.	SCR-IT-MON-1
Wegner, H. A.	MOL-CT-THU-35
Wei, H.	2DM-P-104
Weinelt, M.	MOL-CT-THU-37
Wells, J. W.	SEM-CT-TUE-2
Wendt, S.	CDM-CT-THU-9
Weng, X.	OXI-P-12
Wenzel, S.	SCR-CT-MON-15
Werner, K.	CAT-CT-THU-22
Werner, K.	OXI-CT-MON-9
Werner, K.	CAT-P-10
Werner, K.	CAT-P-120
Werner, K.	OXI-CT-MON-9
Werner, K.	OXI-P-103

Weststrate, K. -J.	CAT-CT-WED-10
Widdra, W.	CAT-CT-WED-6
Walls, B.	CAT-CT-WED-8
Walshe, K.	MRS-P-89
Weymouth, A.	NAM-IT-WED-8
Widmer, R.	OXI-CT-TUE-30
Wiedmann, S.	UES-CT-MON-5
Wiegmann, T.	MRS-CT-TUE-16
Wiesendanger, R.	UES-CT-MON-13
Wijesinghe, S.	NAM-CT-TUE-6
Wilde, M.	OXI-CT-TUE-23
Wilgocka-Słęzak, D.	MOL-P-92
Will, M.	SCR-CT-THU-26
Willinger, M. -G.	COR-CT-THU-2
Wilson, A.	OXI-CT-MON-9
Winkler, P.	2DM-CT-MON-9
Winter, R.	2DM-CT-TUE-22
Wit, B.	SCR-CT-THU-23
Witkowski, N.	WAT-CT-TUE-7
Wodtke, A. M.	CAT-P-6
Wojciechowski, P.	MOL-CT-THU-36
Wolf, M.	UES-CT-MON-8
Wolkow, R.	OXI-CT-TUE-32
Wöll, C.	MOL-P-109
Wollesen, L.	SCR-CT-MON-14
Wollschläger, J.	SCR-CT-MON-9
Won, S.	UES-IT-MON-1
Wongwiriyapan, W.	SEM-CT-TUE-1
Woodruff, D. P.	OXI-CT-TUE-21
Wu, K.	WAT-P-138
Wu, L.	UES-CT-MON-13
Wu, Z.	CDM-IT-THU-5
Wurth, W.	OXI-CT-MON-4
Wutikhun, T.	SEM-CT-TUE-5
Wyatt, A.	NAM-CT-WED-12
Xian, P.	NPS-CT-THU-11
Xiang, F.	OXI-CT-MON-11
Xu, H.	MRS-IT-MON-1
Xu, T.	COR-CT-THU-2
Yakob, Y.	MOL-CT-THU-32
Yakovlev, Y.	UES-CT-MON-11
Yakutovich, A. V.	ELC-CT-TUE-10
Yamamoto, I.	MOL-CT-TUE-9
Yamamoto, M.	NPS-CT-THU-8
Yamasaki, T.	ELC-P-120
Yamashita, Y.	2DM-P-31
Yamasue, K.	NAM-CT-TUE-3
Yamazoe, S.	2DM-CT-WED-37
Yan, W.	COR-CT-THU-2
Yang, A.	NAM-CT-TUE-3
Yang, H. J.	OXI-CT-TUE-32
Yang, L.	UES-CT-MON-10
Yang, N.	OXI-CT-TUE-34
Yang, X.	MRS-IT-TUE-21
Yashina, L. V.	SCR-CT-THU-32
Yedduo-Mezenner, N.	SCR-P-43
Yivilalin, R.	SCR-P-44
Yngman, S.	ELC-CT-TUE-11
Yokoyama, K.	COR-P-117
Yoshigoe, A.	MRS-P-91
Yoshimura, M.	ELC-P-120
Yoshimura, M.	SCR-CT-MON-4
Yu, F.	SCR-P-56
Yu, M.	2DM-P-27
Yu, M.	2DM-P-28
Yu, M.	2DM-CT-MON-14
Yu, X.	COR-P-117
Yuan, C.	MOL-CT-TUE-2
Yudong, H.	MRS-IT-TUE-21
Yusop, M. Z. M	MRS-IT-TUE-14
Zabka, W. D.	MOL-CT-TUE-2
Zacharias, H.	MRS-IT-TUE-21
Zajac, L.	OXI-CT-TUE-21
Zajac, L.	MRS-CT-TUE-14
Zajac, L.	MOL-CT-THU-26
Zajac, L.	MRS-CT-TUE-14
Zakhser, A.	MOL-CT-TUE-37
Zaki, E.	CAT-CT-THU-23
Zamora, F.	OXI-CT-TUE-28
Zanutt, A.	SCR-P-59
Zarotti, F.	2DM-CT-MON-3
Zibiri, M.	ELC-CT-TUE-10
Zdyb, R.	OXI-CT-TUE-34
Zegenhagen, J.	SCR-CT-MON-16
Zegkinoglou, I.	2DM-CT-MON-15
Zeng, Y.	WAT-CT-TUE-7
Zetterberg, J.	CAT-CT-WED-16
Zhang, C.	CAT-CT-TUE-17
Zhang, H.	CAT-CT-THU-31
Zhang, L.	CAT-CT-THU-28
Zhang, Q.	CAT-CT-THU-20
Zhang, T.	OXI-CT-WED-37
Zhang, X.	CAT-CT-THU-24
Zhang, X.	CAT-CT-THU-25
Zhang, X.	SCR-CT-MON-3
Zhang, X.	CAT-CT-THU-22
Zhang, X.	SEM-CT-TUE-9
Zhang, X.	OXI-CT-TUE-25
Zhang, X.	MRS-IT-TUE-13
Zhang, X.	MRS-IT-MON-2
Zhang, X.	MRS-CT-TUE-17
Zhang, X.	MRS-P-119
Zhang, X.	MRS-CT-TUE-17
Zhang, X.	MRS-IT-TUE-13
Zhang, X.	NPS-CT-THU-15
Zhang, X.	ENM-P-115
Zhang, X.	ELC-CT-TUE-9
Zharnikov, M.	MOL-CT-TUE-1
Zheng, W.	MOL-P-133
Zheng, X.	2DM-P-104
Zheng, X.	ENM-P-97
Zhevnenko, S. N.	SCR-CT-THU-29
Zhidomirov, G.	SCR-P-54
Zhong, D.	SCR-CT-THU-30
Zhong, D.	OXI-CT-TUE-22
Zhong, Q.	MRS-IT-MON-5
Zhou, J.	MOL-CT-THU-35
Zhou, T.	CAT-CT-THU-31
Zhu, J.	CAT-CT-THU-28
Zhu, S.	CAT-CT-THU-20
Zhu, S.	OXI-CT-WED-37
Zhu, X. -G.	CAT-P-5
Zhu, X. -G.	MRS-IT-MON-9
Zhu, X. -G.	CAT-CT-THU-27
Zhu, X. -G.	CDM-CT-THU-9
Zhuravlev, A.	SEM-CT-TUE-7
Zhussupbekov, K.	OXI-P-18
Zimmermann, P.	SCR-CT-THU-31
Zimmermann, P.	MOL-CT-WED-17

EXHIBITION PLAN



LIST OF EXHIBITORS

Exhibitor	Stand	Page
BihurCrystal.....	16	85
Busch Vacuum Pumps and Systems	14	85
Createc.....	13	86
Dr Eberl MBE-Komponenten.....	1	86
Ferrovac.....	4	87
Focus.....	15	87
Hiden Analytical.....	9	88
Image Metrology	2	84
Kashiyama Europe GmbH.....	6	84
Pfeiffer Vacuum Scandinavia.....	17	88
Prevac	12	89
Saes Group	11	89
Scienta Omicron.....	3	90
SIGMA Surface Science & Mantis Deposition....	5	90
SmarAct	8	91
SPECS Surface Nano Analysis.....	7	83
VACPRO	10	91

STAND 7

SPECS™

SPECS Surface Nano Analysis

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SPECS has more than 150 employees at its headquarters in Berlin and its subsidiaries in the USA, Switzerland and China. A team of scientists and engineers are involved in the development and production of scientific instrumentation for surface analysis, material science and nanotechnology. SPECS is a leading supplier in the fields of XPS, UPS, ARPES, but especially Near Ambient Pressure (NAP) - XPS and SPM. With the SPM Aarhus 150 NAP (STM & NC-AFM), SPECS offers an instrument of unique stability and productivity for surface studies with atomic resolution in pressures from UHV to 100mbar. An installed base of more than 30 NAP-XPS systems exists worldwide. Since 2016 SPECS also offers a fully automated NAP-XPS system named EnviroESCA for high throughput routine analysis of the chemical composition of solid, liquid and gaseous samples. On the basis of the existing surface Low Energy Electron Microscope LEEM P90, which was developed in cooperation with IBM, that allows for in situ studies of surface processes, the NAP-LEEM has been developed. SPECS products are continuously revolutionizing the field surface analysis. Refer to www.specs.com for further information.

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STAND 2**Image Metrology**

Our name, "Image Metrology", tells very much who we are: as metrology is the science of measurement, our focus is to create software that can perform measurements in images with the highest accuracy. Our main product, SPIP™, includes several unique algorithms for automated measurement of natural lattice structures on the nanometer scale as well as random organized nano-particles or molecules. These techniques together with a comprehensive set of surface analytical tools enables Scanning Probe Microscopist and other microscopy users to perform measurements efficiently and accurately. Furthermore, our commitment to our SPM users has also led to development of state-of-the-art tools for AFM force spectroscopy and I-V spectroscopy for quantifying important material characteristics at the nano-scale.

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STAND 6**Kashiyama Europe GmbH**

In the design and manufacturing fields of vacuum pumps for Semiconductor and FPD manufacturers, our core business, we continue to maintain No.1 market share within the Japanese market. The primary focus of our customer-oriented approach is to gain a full understanding of our customers' requirements to provide suitable products on-time.

With the founding of Kashiyama Europe GmbH in 2018, Kashiyama Industries Ltd wishes meet the requirements of the European market and respond to the increasingly complex needs of the customers with creative solutions.

Our main business is the development and manufacturing of oil-free dry vacuum pumps as energy saving, low maintenance multistage, roots pumps. The focus of our approach is to support our customers with optimal technology for their different usages in the semi-conductor technique, analytical or branch-specific vacuum equipment, as well as R&D.

Based on the concept of "Total Cost of Ownership", we are proud to serve our customers in every stage from design to maintenance for their daily business activities, to meet their needs and to support with our yearlong experience as one of the market leaders. To this purpose, we have our worldwide service-network.

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STAND 16**BihurCrystal**

BIHURCRYSTAL is committed to supply both the materials of the future and the tools to make them.

Our Materials branch offers a large selection of samples of new materials, optimised for research applications, and following the highest standards of quality and purity. Our catalogue includes nanoparticles, 2D materials, and crystals.

Our UHV equipment branch is focused in bringing new deposition technologies to the market, as well as integrated, affordable and simple to use systems for laboratory and small scale processing.

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STAND 14**Busch Vacuum Pumps and Systems**

Busch Vacuum Pumps and Systems is one of the largest manufacturers of vacuum pumps, blowers and compressors in the world. Our product range comprises the largest selection of solutions for vacuum and overpressure technology in all industry sectors worldwide. We can draw on more than 50 years of experience in manufacturing of vacuum and low-pressure pumps. With over 60 companies in more than 40 countries and agencies worldwide, we can provide consultancy and practical support to all our customers.

All our products are available with a variety of options and advanced design features to match all ranges of applications, so our customers benefit from the most suited solutions. We constantly evaluate our activities to maintain the highest standards, and continue to develop innovative technologies that will define the future.

Busch operates production plants in Germany, Switzerland, Great Britain, the Czech Republic, Korea and the USA. Busch has more than 3,000 employees worldwide, including many chemical and mechanical engineers.

Busch engineers maintain vacuum systems in every corner of the globe and in many industries – from offshore oil exploration in the Arctic Sea to semiconductor production in Malaysia.

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www.buschvacuum.com

STAND 13**CREATEC**

Your innovative partner for UHV growth and analysis

CreaTec Fischer & Co. GmbH, founded in 1992, is an established manufacturer of customized and application-oriented components and systems for ultra-high vacuum (UHV), evaporation, manipulation and instruments. More than 20 years of experience in design, construction and production of UHV equipment allow us to implement complex customer requirements. The adaption of effusion cells, manipulators and transfer systems to existing systems of any supplier is CreaTec's daily business.

Innovations

Our recent new ideas, realized in new products, include Linear Shutters, TUBO Effusion Sources, MiniMBE Systems, Control Software and Optical Access to STM/AFM Scanner head. The permanent exchange of information with our customers, prospective buyers and partners allow us to implement the latest scientific findings into our systems. Several innovations which are now integral parts of our products were generated from close cooperative efforts with leading research institutions.

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STAND 1**Dr. Eberl MBE-Komponenten**

Dr. Eberl MBE-Komponenten GmbH manufactures and sells thin film deposition equipment for MBE, surface science and other UHV-applications. The product range comprises complete MBE systems, as well as components like evaporation sources, effusion cells, electron beam evaporators, sublimation sources, gas sources and various customized equipment.

In more than 25 years of successful business Dr. Eberl MBE-Komponenten GmbH has delivered more than 3000 effusion cells and evaporation sources of various kinds as well as systems and services to more than 500 customers worldwide. Continuous product improvement and development allows building up new products which come along with customers' needs.

The goal of Dr. Eberl MBE-Komponenten GmbH is to provide high quality products and outstanding service for our customers. Our experts also provide consultant services for a large variety of evaporation materials, including cutting-edge research topics like 2D materials or topological insulators. Over the years we optimized co-evaporation processes for a multitude of customers, using a self-developed deposition simulation tool.

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www.mbe-components.com

STAND 4**Ferrovac**

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Since more than two decades, Ferrovac defines the benchmark for magnetically driven UHV manipulators such as wobblesticks, linear/rotary feedthroughs and sample transporters.

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STAND 15**FOCUS**

FOCUS is an owner managed German manufacturer of high value UHV -instrumentation for surface science including a photo electron emission microscope for imaging, Momentum Microscopy (k-space spectroscopy) and μ ARPES (FOCUS IS-PEEM, FOCUS TOF-PEEM, patented NanoESCA), spin detectors (FERRUM, SPLEED) in particular for ARPES and SEMPA, an electron spectrometer with spin analysis (Easy Spin), a high voltage electron energy analyzer (HV-CSA). ARPES we support with a high intensity focused VUV source (HIS 14) with optional monochromator (HIS 14 HD). For ultra clean surface preparation and 2D materials we offer a UHV electron beam evaporators (EFM 3) and ion sources for depth profiling and sample cleaning (FDG 150, FDG 15).

FOCUS will equip the ELI with the latest state of the art NanoESCA MK III end station and will be equipped with a series of preparation and characterization techniques. An integrated Time-of-Flight detection and a 2D Spin-filter, the latter licensed by Surface Concept GmbH, will enable unrivalled new time-, energy-, spin-, angular- and laterally resolved photoelectron spectroscopy. FOCUS also produces a micro electron beam welder (MEBW-60) and laser-in-vacuum-machine (LaVa) for material modification, joining and welding. FOCUS has a strong focus on R&D ranging from engineering to electronics and software.

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STAND 9**Hiden**

Hiden Analytical celebrates more than 35 years of design, development and manufacture of quadrupole mass spectrometers. Our products address a diverse range of applications - precision gas analysis, plasma diagnostics by direct measurement of plasma ions and ion energies, SIMS probes for UHV surface science, catalysis performance quantification, thermo-gravimetric studies - over a pressure range extending from 30 bar processes down to UHV/XHV.

Hiden Analytical was founded in 1981 and is presently situated in a 2,130m² manufacturing plant in Warrington, England with a staff of over 80. As a privately-owned company our reputation is built on creating close and positive relationships with our clients. Many of these customers are working at the forefront of new technology - in the fields of plasma research, surface science, vacuum processing and gas analysis. To maintain this reputation we have, over the years, established exceptional levels of technical expertise in these areas within our company.

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www.HidenAnalytical.com

STAND 17**Pfeiffer Vacuum Scandinavia**

Pfeiffer Vacuum – a name that stands for innovative solutions, high technology, dependable products and first-class service. For more than 125 years, Pfeiffer Vacuum has been setting standards in vacuum technology with these attributes. One very special milestone was the invention of the turbopump at Pfeiffer Vacuum more than 50 years ago. Thanks to the extensive know-how, Pfeiffer Vacuum continues to be the technology and world market leader in this field. In 2017, the Group significantly expanded its product portfolio by acquiring Nor-Cal Products, ATC and DREEBIT. The extensive line of products and services now ranges from vacuum pumps, measurement and analysis equipment right through to leak testing and ion beam technology solutions. The product range also includes flanges, valves, fittings and chambers as well as custom components and complex vacuum systems. And quality always plays a key role in this connection: Products from Pfeiffer Vacuum are constantly being optimized through close collaboration with customers from a wide variety of industries, through ongoing development work and through the exceptional enthusiasm and commitment of the people. Pfeiffer Vacuum has manufacturing sites in Germany, France, South Korea, Romania, USA and Vietnam as well as around 2,900 employees and over 20 subsidiaries worldwide.

For more information please visit www.pfeiffer-vacuum.com

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STAND 12**Prevac**

PREVAC is a world leading manufacturer of deposition and analysis systems based on vacuum technology dedicated for the investigation of chemical and physical properties of solid state surfaces, thin films and nanomaterials. The company designs, manufactures and delivers complete research systems and components, electronic devices and software dedicated to handling PREVAC's products as well as other manufacturers. The company is very well known for custom solutions.

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STAND 11**SAES Group**

For over seventy years, SAES Group has been the leading supplier of UHV and XHV solutions based on Non Evaporable Getter (NEG) technology for a variety of industrial and research applications. These solutions include compact NEG pumps with a large pumping speed for active atmospheric gases and, in particular, hydrogen, without generating vibrations or magnetic fields. In 2011, SAES Group introduced the NEXTorr® pump concept, which efficiently combines NEG and sputtering ion pump technologies. These pumps present a compact one flange pumping solution for UHV and XHV systems. In 2014, SAES Group added Capacitor HV pumps, based on the new ZAO1® getter material, to its pump line, extending the benefits of NEG pumping up to high vacuum pressure levels (1×10^{-9} Torr to 1×10^{-7} Torr). Recently, SAES Group enlarged its portfolio integrating the possibility of providing turn-key vacuum systems and components, like in vacuum undulators or experimental chambers integrating NEG solutions. This is possible thanks to SAES RIAL Vacuum, a new joint venture which combines the extensive knowledge in vacuum and material science of SAES Group with the expertise in vacuum design, fine machining and accelerator technology of RIAL Vacuum Research.

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Scienta Omicron

Scienta Omicron is the market leader in high value UHV equipment. The company provides top capabilities for the research community through its technology leadership in electron spectroscopy, scanning probe microscopy and thin film deposition. These capabilities are available in custom tailored solutions from one source with worldwide sales and service groups.

Customer success: Scienta Omicron provides high service levels. Our aim is to be a partner for customer success in research and analysis. Our knowledge and experience are vast. We offer support for more than 30 different experimental techniques, and for each one you will find a number of specialists who can support project planning, assessment of technique suitability, system design, equipment training, applications support and system upgrades.

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Execution: Scienta Omicron is committed to an exciting and successful future in the field of world-leading surface science.

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SIGMA Surface Science & Mantis Deposition

SIGMA Surface Science and MANTIS Deposition are dedicated to the development and manufacture of high-quality systems and components for cutting-edge applications in nanotechnology, surface analysis and thin film deposition. We enable researchers to both create and analyse the latest materials for advanced materials and device development.

Our PULSE system for fast and dynamic XPS is ideally suited for studying reactions and transitions at surfaces. The instrumentation features the ASPECT analyser and MECS monochromated X-ray source, and is fully integrated into the NEO control suite designed for sophisticated applications to be easily conducted. With Multi Peak Monitoring the exceptional combination of high count rate XPS and short spectrometer switching times is put to full benefit to observe the temporal evolution of many different elements and features with high spectroscopic quality and high temporal resolution. This makes the PULSE an ideal tool where the dynamics of processes need to be followed with the surface sensitivity of XPS.

It is our aim to collaborate with you and progress your research, through rapid development of new instrumentation and techniques. We have an extensive network of representatives worldwide as well as direct support offices in the UK, USA, and Germany.

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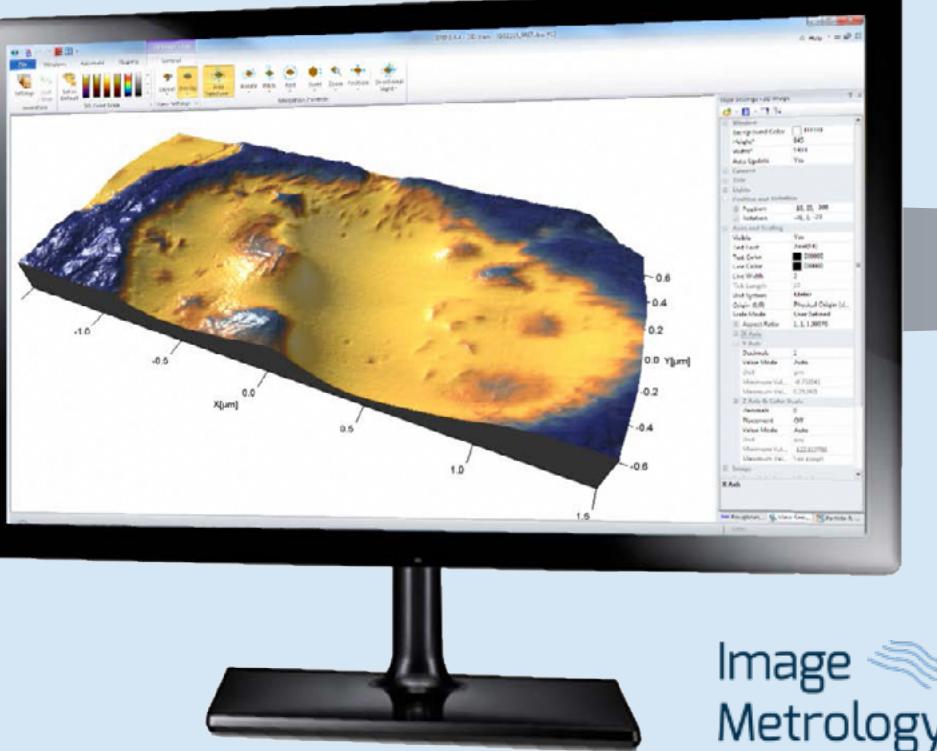


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Metrology

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35th European Conference on Surface Science (ECOSS-35)

23 - 28 August 2020

University of Luxembourg



Abstract
submission
Opens
October 1st, 2018

Early bird until
April 15th, 2019

IVC-21

1-5 July • 2019, Malmö • Sweden

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- 1** Conference Venue
Scandinavian Congress Centre
Radisson Blu Scandinavia Hotel
- 2** Welcome Reception
iNano, Aarhus University
- 3** Tutorial Seminars
Aarhus University
- 4** Conference Dinner
The Old Town (Den Gamle By)
- 5** ARoS Art Museum
- 6** Hotel CABINN
- 7** Wakeup Hotel Aarhus
- 8** The Mayor Hotel
- 9** Scandic Aarhus City Hotel
- 10** Aarhus Train Station (Aarhus H)
- 11** Bus Stop Billund Airport (BLL)
- 12** Bus Stop Aarhus Airport (AAR)

