

# ECAMP11 Second Announcement



## 11<sup>TH</sup> EUROPEAN CONFERENCE ON ATOMS, MOLECULES AND PHOTONS

LAKESIDE LECTURE THEATRE, AARHUS UNIVERSITY, DENMARK  
**24<sup>TH</sup>-28<sup>TH</sup> JUNE 2013**

### Nobel Plenary Speaker

- **Serge Haroche (France)** Manipulation of individual quantum systems

### Plenary Speakers

- **Jeffrey S. Hangst (Denmark)** Formation and characterization of antihydrogen
- **Lene Vestergaard Hau (USA)** Slowing single photons
- **Anne L'Huillier (Sweden)** Attosecond electron spectroscopy
- **Thomas Stöhlker (Germany)** Fundamental physics with heavy ions
- **Birgitta Whaley (USA)** Quantum control of energy transfer in biological systems

**Local Organising Committee:** Lars H. Andersen (Chair), Michael Drewsen, Klaus Mølmer, Henrik Stapelfeldt

**Conference Secretary:** Trine Binderup

**International Chair:** Friedrich Aumayr

ECAMP11 incorporates the **EGAS45** conference

[HTTP://ECAMP11.AU.DK](http://ecamp11.au.dk)



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## LOCAL ORGANISING COMMITTEE

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Stockholm University, Sweden

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University of Gothenberg, Sweden

# WELCOME

Dear Colleagues

It is a great pleasure for the board of the AMOP Division of the EPS, and for the organizing committee, to invite you to participate in the 11<sup>th</sup> European Conference on Atoms, Molecules and Photons, which takes place at Aarhus University, Denmark, 24<sup>th</sup> - 28<sup>th</sup> June 2013.

The scientific programme will cover a variety of topics of contemporary interest to the AMO community, and we are delighted to present a series of plenary lectures by internationally renowned experts.

The organizing committee cordially invites anyone with an interest in atoms, molecules and photons. We hope you will enrich the conference by participating and sharing your latest knowledge and experiences with us, thereby contributing to a rewarding conference.

Aarhus is the second largest city in Denmark with a population of approximately 300,000. The culture is lively and young, mainly due to the city's large student population (approximately 30,000).

Aarhus is an old city, but still young at heart! The city was founded by the Vikings as an open trading post at the mouth of the river. Aarhus is an educational and cultural centre and its soul is a charming blend, combining the atmospheres of a provincial town and an active city, which will make you feel welcome and at home. Scattered around the city you will find many restaurants, bars and cafes, many of which are located by the river and suitable for all budgets.

Aarhus offers many attractions – such as the open-air museum “The Old Town”, Marselisborg Castle (Queen Margrethe II's summer residence) and the ARoS art museum. Discover the delights for yourself. Most things are within walking distance, the city of Aarhus is the place where every wish can be fulfilled in fascinating and inspiring surroundings.

Ideally situated in a bay, fringed by beaches, forests and lush scenery, yet bustling with life, Aarhus offers an inspiring setting for the conference.

We look forward to welcoming you to Aarhus.

On behalf of the local organising committee,

Lars H. Andersen

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# GENERAL INFORMATION

## CONFERENCE LOCATION

The conference venue will be the Lakeside Lecture Theatres, Aarhus University, Denmark.

Address: Lakeside Lecture Theatre  
Aarhus University  
Wilhelm Meyers Allé, Building 1250  
DK-8000 Aarhus C  
GPS co-ordinates: 56.166911, 10.205440



## THE CITY OF AARHUS

Aarhus was founded over 1,000 years ago as a Viking settlement at the mouth of the river. The city first began developing c. 1900, when industrial growth attracted rural populations. The population of Aarhus has almost doubled since 1935 and is still growing, although rather more slowly than in recent decades.

Aarhus is the second-largest city in Denmark situated by the sea in the heart of Jutland. The Municipality of Aarhus covers approximately 300,000 inhabitants with an additional 1,200,000 in the surrounding region of East Jutland; this makes it the second-largest region in Denmark.

Aarhus is a "young" city due to the relatively large population of younger inhabitants. This naturally follows the location of many schools and educational institutions where young people from out-lying districts move into the city to study. However, many of them move away once their studies are completed.

## AARHUS UNIVERSITY

Aarhus University is the second-oldest and second-largest university in Denmark. Most of the university's yellow-brick buildings are located on a picturesque campus, which is situated in a hilly area, with a moraine valley full of large oak trees and a stream that flows into two small lakes.

At our University we believe that attractive, friendly surroundings promote inspiration, industry and efficiency, helping students and teachers to have a sense of well-being here. We know that the many researchers and students who have spent time at Aarhus University over the years have taken warm, living memories home with them and that the bonds they have developed here are strong and durable.

Aarhus University is a centre of tradition and innovation, discussion and debate, co-operation and concentration, and we are pleased to be able to share these with others. We value the contributions which international students and researchers make to this tradition and to the cultural and social diversity which enhances the academic experience.



# TRAVEL

## TO AARHUS

### Flights

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Copenhagen airport is the largest airport in Denmark, but there are also two smaller airports in the area, Aarhus (Tirstrup) and Billund.

#### **Aarhus Airport (AAR) (<http://www.aar.dk>)**

Aarhus Airport (Tirstrup) is fairly small and has frequent arrivals from Copenhagen (approximately 7 flights per day), London (Stansted), Oslo, Stockholm, Gothenburg and a few other destinations depending on the season. For a full list of destinations from to/from this airport see the Aarhus Airport website.

There is a 45 minute bus ride to the centre of Aarhus which costs 100 DKK and stops both close to the University and in the centre of the city. Further information regarding Aarhus airport can be found at <http://www.aar.dk> which gives details (in English and Danish) of flights, the bus service and car rental.

#### **Billund Airport (BLL) (<http://www.billund-airport.com/>)**

Billund Airport is much larger than Aarhus Airport and has arrivals from many European destinations. The bus ride into the centre of Aarhus takes ~1hr and 30 minutes and costs 180 DKK. The bus stops in the centre of the city, next to the SAS Radisson Hotel. The timetable for this bus service and other information about Billund Airport can be found at <http://www.billund-airport.com>.

#### **Copenhagen Airport (CPH) (<http://www.cph.dk>)**

Copenhagen Airport is the largest airport in Denmark, with hundreds of flights a day from around the world. To reach Aarhus from this airport you need to either take a connecting flight into Aarhus airport or take a train.

*By air from Copenhagen to Aarhus:* The flight takes only 20 minutes and if your flight into Copenhagen is with one of the Star Alliance airlines you can usually buy the connecting flight to Aarhus included in the ticket. You will then need to take the airport bus into the centre of Aarhus (see above).

*By train from Copenhagen to Aarhus:* There are direct trains from the airport to the centre of Aarhus which take about 3 hrs 30 mins. (There are other trains which require a change at Copenhagen main railway station). The price of a one way ticket is 358 DKK and to reserve a seat is 30 DKK (recommended for journeys during peak hours in the morning and evening). For more information see the train information below.

### Trains

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#### **Aarhus main train station**

The main train station in Aarhus is in the centre of the city. There is a direct service from Copenhagen to Aarhus which takes about 3 hours, with at least one train an hour.

There are also some train connections to other European countries, including a daily, direct train from Berlin, which takes about 6 hrs 30 mins.

#### **[HTTP://ECAMP11.AU.DK](http://ecamp11.au.dk)**

Please see the conference website for maps, links and further information regarding travel to Aarhus.

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# TRAVEL

## WITHIN AARHUS

To walk from the centre of the city to the University takes approximately 30 minutes. However, if you prefer, several bus services are available to the University.

### Bus Timetables

Aarhus city bus timetables can be found online on the Midttrafik website (<http://www.midttrafik.dk>) or you can use the Rejseplanen online journey planner (<http://www.rejseplanen.dk/>, available in English) to search for suitable buses. The closest bus stop (only a few minutes walk) to the conference venue is "Århus Sygehus, Nørrebrogade/Hovedindgang". There are several bus routes from the city centre (1A, 12, 13, 14, 18) to this stop.

### Bus Tickets

A single ticket bought on a bus (ticket machine at the back, coins only) is valid for 2 hours of travel and will cost 20 DKK for a 1-2 zone ticket. The University and all the hotels listed below are in Zone 1, the centre of the City.

A multi-ride 'klippekort' can be bought in most newsagents for 140 DKK, which allows 10 journeys within zones 1 & 2 (which includes the University). The 'klippekort' is not personal and can be used for a group of people travelling together. One clip is valid for 2 hours. On entering the bus (at the back) you should clip the "klippekort" in the small yellow machine (for each person in your group) before taking a seat on the bus.

*Note: Ticket prices are correct as of January 2013.*

### Cycling

Denmark is an ideal country for cycling. There are not many (very) steep hills and there are many safe cycling paths. Urban conditions for cyclists are constantly being improved. Look out for the special cyclists' routes (cykelruter) and cycle paths (cykelstier).

### **[HTTP://ECAMP11.AU.DK](http://ecamp11.au.dk)**

Please see the conference website for maps, links and further information regarding travel within Aarhus.

## IMPORTANT DATES

DEADLINE FOR SUBMISSION OF POSTER ABSTRACTS

**1<sup>ST</sup> APRIL** 2013

DEADLINE FOR EARLY REGISTRATION

**15<sup>TH</sup> APRIL** 2013

DEADLINE FOR APPLICATION FOR STUDENT SUPPORT

**15<sup>TH</sup> APRIL** 2013

DEADLINE FOR GUARANTEED ACCOMMODATION

**1<sup>ST</sup> MAY** 2013

## TOPICS

- T01:** Atomic and molecular astrophysics
  - T02:** Atomic and molecular collisions
  - T03:** Electron collisions
  - T04:** Photon induced processes
  - T05:** Atomic spectroscopy
  - T06:** Molecular spectroscopy
  - T07:** Molecular reaction dynamics
  - T08:** Ultrafast dynamics and attosecond physics
  - T09:** Coherent control
  - T10:** Strong fields
  - T11:** Highly charged ions
  - T12:** Biomolecules
  - T13:** Clusters and nanoparticles
  - T14:** Surface reaction dynamics and self-assembly
  - T15:** Rydberg atoms and ultra-cold plasmas
  - T16:** Atom interferometry and atomic clocks
  - T17:** Degenerate quantum gases
  - T18:** Cold ions, atoms and molecules
  - T19:** Fundamental physics, precision measurements and metrology
  - T20:** Quantum information and cavity QED
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## Invited Speakers (continued)

Hannu Häkkinen (Finland)	Ignoble metals: gold as a catalyst
Johannes Hecker-Denschlag (Germany)	Investigating three-body recombination in an ion trap
Pascal Honvault (France)	Quantum reaction dynamics at low temperatures for astrochemistry
Liv Hornekær (Denmark)	Properties of hydrogenated graphene
Vincent Jacques (France)	Color centers in diamond as artificial atoms for quantum physics
Peter Lambropoulos (Greece)	Atomic and Molecular Physics with X-ray free electron lasers
Tatiana Marchenko (France)	Ultrafast dynamics in postcollision interaction upon argon 1s photoionization
Gerard Meijer (Germany)	Trapping molecules on a chip
Frederic Merkt (Switzerland)	Manipulating Rydberg atoms close to surfaces
Catalin Miron (France)	Synchrotron radiation based electron spectroscopy of isolated species: a probe for fundamental properties
Morgan Mitchell (Spain)	Squeezed-light optical magnetometry
Giovanni Modugno (Italy)	Transport dynamics of matter-waves in the presence of disorder and nonlinearity.
Oliver Morsch (Italy)	High-fidelity quantum driving
Holger Müller (USA)	Matter-wave clocks, gravitational redshift, and time
Edvardas Narevicius (Israel)	Quantum Effects in Cold Reactive Collisions
Massimo Olivucci (Italy)	From biological photoreceptors to the design of biomimetic molecular devices
Niklas Ottosson (The Netherlands)	Spectroscopy of water surfaces
Thomas Pohl (Germany)	Many-body problem in cold Rydberg ensembles
Fabien Quéré (France)	Plasmas Mirrors: a very promising alternative to high order harmonic generation to generate XUV at the attosecond scale
Jakob Reichel (France)	Measurement of the internal state of a single atom without energy exchange
Nina Rohringer (Germany)	Realization of an atomic inner-shell x-ray laser at the LCLS
Christian Roos (Austria)	Quantum simulations with trapped ions
Patrick Rousseau (France)	Ion induced fragmentation of complex molecules and clusters of molecules
Stefan Schippers (Germany)	Nuclear effects on atomic transitions: Storage-ring measurements of hyperfine induced decay rates in berylliumlike ions
Martin Schmidt (France)	Calorimetry on free water clusters
Reinhold Schuch (Sweden)	Guiding ions through nanocapillaries
Thorsten Schumm (Austria)	An atomic clock with a nuclear transition
Letizia Stanghellini (USA)	Fullerene in space
Jacques Vigué (France)	Detection of the He-McKellar-Wilkens geometric phase by atom interferometry
Andrey Volotka (Germany)	Tests of QED effects on the hyperfine splitting and the g-factor of high-Z few-electron ions
Antoine Weis (Switzerland)	Atomic magnetometry for biomedical and fundamental research
Roland Wester (Austria)	Negative Ion reaction dynamics
Matthew Zepf (UK)	High Harmonic Generation from Relativistically Oscillating Plasmas

# POSTER ABSTRACTS

## Deadline for submission of an abstract

1<sup>st</sup> April 2013

There will be four poster sessions at the conference on Monday, Tuesday, Wednesday and Friday afternoons, covering all of the 20 session topics for the conference. You are invited to submit an abstract on original work for presentation as a poster.

All abstracts submitted will be reviewed by the committee and you will be notified by the *beginning of April 2013* if your poster has been accepted. The committee will also select 16 of the submissions to be presented as a "Hot Topic" talk during the conference. When submitting an abstract you will be asked to indicate if you are prepared to give a talk based on the abstract.

You do not need to be registered for the conference before submitting an abstract for a poster, but once your abstract has been accepted the presenting author or one of the co-authors should be at the conference. If the presenting author is not able to participate please contact the organisers to inform them of the change. If none of the authors are able to attend the conference the submission will not be included in the final programme.

On submission of an abstract you will receive an identifier code which should be included when you register for the conference and used if you need to contact the organisers regarding the abstract submission.

Please complete the submission process for each poster you would like to present.

### Preparation of Abstracts

On the conference website you will find documents which detail how an abstract should be prepared for submission, including page size, fonts and layout. The final abstracts will be distributed electronically so full colour images can be included. Abstracts should be uploaded as a PDF file no larger than 10 Mb.

### Poster size

The maximum acceptable size for a poster is A0 (84x119 cm) and should be in *portrait format*. Participants are asked to bring their printed poster with them as no poster printers will be available at the conference.

### Submission of abstracts

To submit an abstract please go to the conference website and follow the link. Abstracts will only be accepted via the on-line submission form.

# REGISTRATION

## Deadline for early registration

15<sup>th</sup> April 2013

### Registration fees

	Payment before 15 <sup>th</sup> April 2013	Payment after 15 <sup>th</sup> April 2013
Regular delegate		
Member of the EPS or National Society	€410 (3100 DKK)	€450 (3400 DKK)
Non-member	€430 (3250 DKK)	€470 (3550 DKK)
Students*	€270 (2050 DKK)	€300 (2250 DKK)
Accompanying person	€150 (1125 DKK)	€150 (1125 DKK)

\*Students need to supply an official statement from their university/research institution/thesis supervisor that certifies that they are registered as (graduate) students to qualify for this fee. The letter should be sent electronically to KongresKompagniet (ecamp11-student@kongreskompagniet.dk) shortly after registering for the conference.

The conference fee for participants (regular/students) includes:

Access to all sessions, buffet lunch on each day of the conference, coffee/tea during breaks, an informal welcome reception on Sunday the 23<sup>rd</sup> June, the Mayor's welcome reception at Aarhus City Hall on Monday the 24<sup>th</sup> June, the Conference dinner at the "Old Town" on Thursday the 27<sup>th</sup> June.

The conference fee for an accompanying person includes:

An informal welcome reception on Sunday the 23<sup>rd</sup> June, the Mayor's welcome reception at Aarhus City Hall on Monday the 24<sup>th</sup> June, the Conference dinner at the "Old Town" on Thursday the 27<sup>th</sup> June.

When registering for the conference please indicate on the form if you wish to participate in the various social events, even if they are included in the registration fee.

### How to register

Registration for the conference will be dealt with by "KongresKompagniet". To register online please follow the link from the conference website. All correspondence concerning registration and accommodation (payment charges, cancellation, etc.) should be directed to:

Congress secretariat  
KongresKompagniet A/S  
Nordhavnsvej 4  
DK-8000 Aarhus C, Denmark  
Tel: +45 8629 6960, Fax: +45 8629 6980  
Email: ecamp11@kongreskompagniet.dk

Anyone wishing to attend the ECAMP11 conference must submit a completed registration form via online registration.

### Cancellation Policy

Cancellation no later than 10<sup>th</sup> June 2013 the full amount (incl. Thursday afternoon excursions) less a cancellation fee of €150 (1150 DKK) will be refunded. Cancellation after 10<sup>th</sup> June 2013 no refund will be made.

# STUDENT SUPPORT

**Deadline for applying for support**  
15<sup>th</sup> April 2013

Funds are available to further support students attending the ECAMP11. To apply for this support students are required to submit a supporting letter from their supervisor, which should include both the applicant's and supervisor's email addresses. Students receiving this support are expected to prepare and present a poster at the conference. Successful applicants will be notified via their supervisor and will receive €150 in cash upon arrival at the conference.

Applications should be sent via email to the local organising committee: [ecamp11@au.dk](mailto:ecamp11@au.dk)

# NIELS BOHR CENTENNIAL POSTER PRIZES

A Niels Bohr poster prize of €200 will be awarded to one poster from each of the four poster sessions that will be held at the conference. To be eligible for this prize you should be a student or postdoc presenting your own work. The winners will be announced at 17:00 on Friday 28<sup>th</sup> June in the "Close of conference" session.

## Evaluation criteria

The evaluation criteria for the Niels Bohr Centennial poster prizes are divided into three categories, technical presentation, scientific content and oral presentation and will be weighted 1:2:1.

Details of the criteria

- I. **Technical presentation**  
Overall visual appeal (layout of text and figures), readability (font size, quality of printing, etc.), balance between text and figures/pictures, clear indication of presenter and her/his affiliation.
- II. **Scientific content**  
Title (effectively communicates the poster subject), abstract (succinctly summarises the scientific work), methods (clear outline of procedures), results (adequate/convincing summary of findings, appropriate reference to tables/figures), conclusions/future directions
- III. **Oral presentation**  
The student's availability at the poster, understanding of materials, engagement and communication skills

# ACCOMMODATION

## Deadline for guaranteed accommodation

1<sup>st</sup> May 2013

KongresKompagniet has made preliminary hotel reservations in different categories in Aarhus city centre, details for which you can find below. Please state your preference when you register for the conference. In order to obtain the prices specified here your booking must be made through KongresKompagniet. Hotel rooms are booked on a first-come first-served basis. In order to guarantee the booking of a room via KongresKompagniet you need to register by the 1<sup>st</sup> May 2013.

All prices are inclusive of breakfast and taxes. Payment for accommodation must be made directly to the hotel upon departure.

### Change of hotel reservation

If you wish to change any details of your hotel reservation made when registering for the conference, please contact KongresKompagniet and not the hotel directly (ecamp11@kongreskompagniet.dk).

### [HTTP://ECAMP11.AU.DK](http://ecamp11.au.dk)

Please see the conference website for maps and links regarding accommodation.

## RADISSON BLU SCANDINAVIA HOTEL

Margretheplassen 1, DK-8000 Aarhus  
GPS location for this hotel: 56.152339, 10.197070

Price per night for a single room: 1450 DKK  
Price per night for a double room: 1450 DKK



## SCANDIC CITY HOTEL

Østergade 10, DK-8000 Aarhus  
GPS location for this hotel: 56.154101, 10.207155

Price per night for a single room: 1250 DKK  
Price per night for a double room: 1450 DKK



## ACCOMMODATION CONTINUED

### BEST WESTERN HOTEL RITZ

Banegårdspladsen 12, DK-8000 Aarhus  
GPS location for this hotel: 56.151021, 10.203439

Price per night for a single room: 1030 DKK  
Price per night for a double room: 1385 DKK



### SCANDIC PLAZA HOTEL

Banegårdspladsen 14, DK-8000 Aarhus  
GPS location for this hotel: 56.150784, 10.202393

Price per night for a single room: 975 DKK  
Price per night for a double room: 1175 DKK



### FIRST HOTEL ATLANTIC

Europaplads 10, DK-8000 Aarhus  
GPS location for this hotel: 56.152784, 10.212183

Price per night for a single room: 975 DKK  
Price per night for a double room: 1075 DKK



### CABINN HOTEL

Kannikegade 14, DK-8000 Aarhus  
GPS location for this hotel: 56.155899, 10.210263

Price per night for a single room: 745 DKK (Captain class);  
645 DKK (Commodore class); 565 DKK (Economy class)

Price per night for a double room: 935 DKK (Captain class);  
835 DKK (Commodore class)



## SOCIAL EVENTS

### WELCOME RECEPTION AND REGISTRATION

#### **Sunday 23<sup>rd</sup> June 2013, Time tbc**

All delegates and accompanying persons are invited to an informal reception at the conference venue, the Lakeside Lecture Theatre (Søauditorierne), where it will be possible to register for the conference. Drinks and snacks will be served. There is no additional cost for this event.

GPS location for this event: 56.166926, 10.205494

### MAYOR'S WELCOME RECEPTION

#### **Monday 24<sup>th</sup> June 2013, 17:30-18:30**

All delegates and accompanying persons are invited to a reception hosted by the Mayor of Aarhus at the City Hall in the centre of Aarhus. Wine and snacks will be served. There is no additional cost for this event.

GPS location for this event: 56.152614, 10.203123

### CONFERENCE DINNER AT "THE OLD TOWN"

#### **Thursday 27<sup>th</sup> June 2013 18:00-**

The Old Town (Den Gamle By), 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.

Upon arrival a welcome drink and snacks will be served at the Square. From 18:00 to 20:00 you can explore 'Den Gamle By' at your own pace and enjoy the cosy streets filled with music. 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, a modern 5-course menu, will be served at the museum.

*Tip: Bring along practical footwear to walk the cobblestone streets.*

There is no additional cost for this event, the conference dinner is included in the registration fee.

GPS location for this event: 56.158876, 10.19042

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# SOCIAL EVENTS CONTINUED

## AFTERNOON EXCURSIONS

### **Thursday 27<sup>th</sup> June 2013, 13:30-**

A variety of excursions are being arranged in and around Aarhus to take place during the afternoon. *You will be asked to indicate which excursion you would like to participate in when registering for the conference.*

#### Run + Experience Aarhus – Active and fun sight-seeing: 14.30 – 16.00

Bring your running shoes to Aarhus! On this tour a local runner will lead the group at a comfortable pace and guide you through the city. Beautiful sights make Aarhus perfect for sightseeing while running. You will get a good idea of how to experience Aarhus the way the locals do. On the tour a few pictures will be taken, which will be available for you to download, as a personal souvenir.

Price per person: 200 DKK/ 27 EUR

#### Visit ARoS – Aarhus museum of art : 13.30 – 15.30

Situated in central Aarhus, ARoS was officially opened on the 7<sup>th</sup> April 2004. The five metre tall and 500 kg sculpture "Boy", by the Australian artist Ron Mueck, is the symbol of ARoS and can be found crouching in the northern end of the foyer of special exhibitions. On 28<sup>th</sup> May 2011 "Your rainbow panorama" was opened. This permanent work of art, created by Olafur Eliasson, is a circular walkway 150 metres in circumference and three metres wide, with glass walls in all the colours of the spectrum. The spectacular work of art has a diameter of 52 metres and is mounted on slender columns 3.5 metres above the roof of the museum. Visitors to the museum have free access to this work of art, via stairs or a lift.

A bus will pick you up at the university and a guide will accompany you on this tour. The tour ends at ARoS.

Price per person: 250 DKK / 34 EUR

#### City Sightseeing Tour: 13.30 – 16.00

This tour will show you the major sights of Aarhus. A bus will pick you up at the university and a guided tour will start at the Cathedral. The Cathedral was founded at the beginning of the 12th century and has a very beautiful catholic altar and Denmark's biggest collection of frescos. A very short walk takes you to the Viking museum, which is located beneath the Nordea bank building. The bank is built on the site of an archaeological excavation that reveals traces of the Vikings, who founded the city more than 1,000 years ago. From the Viking Museum you walk to the charming cobblestone street Møllestien, which has small timbered houses with hollyhocks.

The guide will also tell you about the city's history in general and the more recent developments in the city which have re-defined many areas, particularly the uncovering of the river which gives the city a totally different character. The city walk ends at the Main Square.

Price per person: 225 DKK / 30 EUR