June 26 - Monday

19:00 Claus Michelsen will be meeting all of you for an informal meeting and dinner at your own expense at

Toldboden
Nordre Toldbod
1259 Copenhagen K
Phone: +45 33930760
Email: havnespiseriet@toldboden.com
Web: www.toldboden.com

June 27 - Tuesday

D170 08:30 Registration of participants with coffee/tea and informal networking
D174 09:30 Official opening
10:00 **Keynote 1**: Paul Ernest: *Mathematics, beauty and art*
    Chair: Claus Michelsen
C001 11:00 **Session 1**: *Mathematics, music and literature*
    Chair: Hans Walser
    Hans Peter Nutzinger: *The beauty of patterns – The hidden mathematics of music*
    Uffe Thomas Jankvist, Helle Rørbech & Jesper Bremholm: *Revisiting Hardy’s “Apology” – An interdisciplinary rendezvous between mathematics, literature and literacy*
    Lina Medina Ibarra, Avenilde Romo-Vázquez & Mario Sánchez Aguilar: *Relating mathematics and literature as a teaching strategy at the high school level*
12:30-13:25  Lunch

C001 13:30  **Session 2: Mathematics, primary education and beliefs**
Chair: Jesper Bremholm

Maria Kirstine Østergaard: *Contributing to students’ perception of the relevance and application of mathematics by focusing on students’ mathematics-related beliefs*

Lena Lindenskov: *Seven keys to experiencing aesthetic aspects of mathematics – exemplified in a Danish early intervention programme for high and low performers*

Gao Shuzhu & Chen Weiwei: *From centroid to explain a question about the volume of cone.*

C001 15:00  Refreshments: water, fruit

C001 15:30  **Session 3: Mathematics, creativity and giftedness**
Chair: Hans Peter Nutzinger

Lisser Rye Ejersbo: *How is the Danish requirement that mathematics be a creative subject realised in practice?*

Peter Weng & Uffe Thomas Jankvist: *More gifted than gifted – Mathematical communication competency as an indicator for giftedness*

C001 17:00  Departure for guided tour at Danish School of Education, AU, Campus Emdrup, by Nicolai Paulsen

D170

18:00-20:00  Reception with winetasting and tapas

**June 28 - Wednesday**

D174 09:30  **Keynote 2**: Jens Højgaard Jensen: *Mathematical modelling – Hiding or guiding?*
Chair: Uffe Thomas Jankvist

D174 10:30  **Session 4: Mathematics, modelling and mathematization**
Chair: Mario Sánchez Aguilar

Martin Niss: *Addressing mathematization obstacles with unformalized problems in physics education*

D174 11:00  Refreshments: coffee/tea
Session 5: Mathematics, language and technology

Chair: Helle Rørbech

Caitlin Furlong: *Technology-based games in mathematics and their impact on student motivation*

Daria Yeryomka: *The mathematical and physical principles of modern art expertise technology*

12:30-13:25 Lunch

Session 6: Mathematics and interdisciplinary teaching

Chair: Maria Kirstine Østergaard

Simon Zell: *Models for interdisciplinary teaching*

Claus Michelsen: *Secondary mathematics and biology in-service teachers engaging in interdisciplinary unit planning: Challenges, limitations and potentials*

14:30 Getting ready for the cruise boat

15:00 Departure with the bus in front of C001

The Viking Bus will drive us to Toldboden

15:30-17:30 Cruise boat for a two hours guided tour in the harbor of Copenhagen

17:30-19:00 Walk & talk with visit to Christianshavn & Christiania

19:00 Dinner at Spiseloppen at Christiania

Restaurant Spiseloppen
Bådsmandsstræde 43
DK-1407 København K
T: +45 32 57 95 58

June 29 - Thursday

Keynote 3: Annie Savard: *Making decisions in a complex world: Teaching how to navigate using mathematics*

Chair: Astrid Beckmann

C001 11:00 Refreshments: coffee/tea
C001  11:30  **Session 7: Mathematics, literature and aesthetics**  
Chair: Tomas Højgaard  
Hans Walser: *Semi-regular figures: Between beauty and regularity.*  
12:30  Lunch  
C001  13:30  **Session 8: Mathematics, STEM, STEAM, competencies and interdisciplinarity**  
Chair: Lena Lindenskov  
Viktor Freiman, Manon LeBlanc & Caitlin Furlong: *STEAMing soft skills in makerspaces: What are the mathematical connections?*  
Tomas Højgaard & Jan Sølberg: *Competencies, curricula and interdisciplinarity: An analysis of a curriculum development process in mathematics and science education*  
C001  15:30  Closing reception