MACAS-2017
Revised Conference Programme

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*
C001 11:00    **Session 1**: *Mathematics, music and literature*
               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
**Session 2: Mathematics, primary education and beliefs**

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.*

**Session 3: Mathematics, creativity and giftedness**

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*

**Session 5: Mathematics, language and technology**

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*

**June 28 - Wednesday**

**Keynote 2:** Jens Højgaard Jensen: *Mathematical modelling – Hiding or guiding?*

**Session 4: Mathematics, modelling and mathematization**

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

**Session 5: Mathematics, language and technology**

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*
C001 13:30 **Session 6: Mathematics and interdisciplinary teaching**
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

**Excursion and conference dinner (separate programme will follow)**
The Viking Bus will drive us to Toldboden

15:30-17:30 Guided Cruise boat for a two hours guided tour in the harbor of Copenhagen
17:30-19:00 Walk & talk with visit to Christianshavn & Christania

19:00 Dinner at SpiseLoppen inside Christania
Restaurant Spiseloppen
Bådsmandstræde 43
DK-1407 København K
T: +45 32 57 95 58

**June 29 - Thursday**

D174 10:00 **Keynote 3**: Annie Savard: *Making decisions in a complex world: Teaching how to navigate using mathematics*

D174 11:00 Refreshments: coffee/tea

C001 11:30 **Session 7: Mathematics, literature and aesthetics.**
Hans Walser: *Semi-regular figures: Between beauty and regularity.*

12:30 Lunch
Session 8: Mathematics, STEM, STEAM, competencies and interdisciplinarity
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

Closing reception