

PROGRAM SCHEDULE

Monday, 24 June 2019

08:00 – 09:00	Workshop registration				
09:00 – 10:30	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5
10:30 – 10:45	Coffee / tea break				
10:45 – 12:15	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5
12:15 – 13:15	Lunch				
13:15 – 14:45	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5
14:45 – 15:00	Coffee / tea break				
15:00 – 16:30	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5

Tuesday, 25 June 2019

09:00 – 10:30	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5
10:30 – 10:45	Coffee / tea break				
10:45 – 12:15	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5
12:15 – 13:15	Lunch				
13:15 – 14:45	Workshop 1	Workshop 2	Workshop 3	Workshop 4	
14:45 – 15:00	Coffee / tea break				
15:00 – 16:30	Workshop 1	Workshop 2	Workshop 3	Workshop 4	

Wednesday, 26 June 2019

08:00 – 15:30	Conference registration				
09:00 – 09:30	Opening ceremony (Room: A220)				
09:30 – 11:00	Keynote 1				
11:00 – 11:30	Coffee / tea break				
11:30 – 12:30	Plenary panel				
12:30 – 13:30	Lunch				
13:30 – 15:00	Session 1A	Session 1B	Session 1C	Session 1D	
15:00 – 15:30	Coffee / tea break				
15:30 – 17:00	Session 2A	Session 2B	Session 2C	Session 2D	
18:00 – 19:30	Reception				

Thursday, 27 June 2019

08:30 – 15:30	Conference registration				
09:00 – 10:30	Keynote 2				
10:30 – 11:00	Coffee / tea break				
11:00 – 12:00	Plenary panel				
12:00 – 13:00	Lunch				
13:00 – 14:30	Session 3A	Session 3B	Session 3C	Session 3D	
14:30 – 15:00	Coffee / tea break				
15:00 – 16:30	Session 4A	Session 4B	Session 4C	Session 4D	

Friday, 28 June 2019

08:30 – 09:00	Conference registration				
09:00 – 10:30	Keynote 3				
10:30 – 11:00	Coffee / tea break				
11:00 – 12:30	Session 5A	Session 5B	Session 5C	Session 5D	
12:30 – 13:30	Lunch				
13:30 – 15:00	Session 6A		Session 6C	Session 6D	
15:00 – 15:30	Closing ceremony (Room: A220)				

PROGRAM OVERVIEW

Pre-Conference Workshops

Monday & Tuesday, 24-25 June 2019, 09:00 – 16:30*

Workshop 1	Using large-scale assessment data to inform policy and practice Instructor: <i>David Rutkowski and Sabine Meinck</i>	Room: A401 Abstract page: 14
Workshop 2	Multilevel modeling with IEA data Instructor: <i>Agnes Stancel-Piqtak and Leslie Rutkowski</i>	Room: A403 Abstract page: 14
Workshop 3	Assessment design, item response theory, and proficiency estimation Instructor: <i>Eugenio Gonzalez</i>	Room: A412 Abstract page: 15
Workshop 4	Response styles in large-scale assessment Instructor: <i>Jamis He Jia</i> (In memory of <i>Fons van de Vijver</i>)	Room: A414 Abstract page: 15
Workshop 5*	Analyzing data from international large-scale assessments using R Instructor: <i>Emmanuel Sikali, Paul Bailey, and Ting Zhang</i>	Room: A405 Abstract page: 16

*Workshop 5 ends at 12:15 on Tuesday 25 June.

Keynote presentations

Wednesday 26 June 2019 09:30 – 11:00	Keynote 1 Global attitudes and perceptions of social justice among youth: When no (in)differences make the difference Speaker: <i>Christian Christrup Kjeldsen</i> Chair: <i>Thierry Rocher</i>	Room: A220 Abstract page: 16
Thursday 27 June 2019 09:00 – 10:30	Keynote 2 How can IEA make a difference in measuring and monitoring learning in the 2030 agenda for sustainable development? Speaker: <i>Aaron Benavot</i> Chair: <i>Andrea Netten</i>	Room: A220 Abstract page: 16
Friday 28 June 2019 09:00 – 10:30	Keynote 3 For a fact-based worldview Speaker: <i>Anna Rosling Rönnlund</i> Chair: <i>Dirk Hastedt</i>	Room: A220 Abstract page: 17

Plenary sessions

Wednesday 26 June 2019 11:30 – 12:30	Panel on national challenges, regional perspectives, and global influences: The contribution of IEA studies to the better understanding of civic and citizenship education over the decades Panelists: <i>Gabriella Agrusti, Jens Bruun, Cristián Cox, Ines Elezović, and Wolfram Schulz</i> Moderator: <i>Ralph Carstens</i>	Room: A220 Abstract page: 17
Thursday 27 June 2019 11:00 – 12:00	Perspective on PIRLS and ePIRLS 2016 (Symposium) Chair: <i>Michael O Martin</i> Panelists: <i>Jan Mejdning, Marc Colmant, Cecilia Stenman, and Bethany Fishbein</i> Discussant: <i>Ina Mullis</i>	Room: A220 Abstract page: 17

Closing ceremony

Friday 28 June 2019 15:00 – 15:30	Chair: <i>Christian Christrup Kjeldsen</i> Rapporteurs: <i>Ina Mullis</i> (Strand A: TIMSS and PIRLS), <i>Monica Rosen</i> (Strand B: Methodology), <i>Andres Sandoval-Hernandez</i> (Strand C: ICCS), and <i>Jeppe Bundsgaard</i> (Strand D: Working with IEA data)	
	The ceremony will close with an invitation to IEA IRC 2021	Room: A220

Session 1

Wednesday 26 June 2019, 13:30 – 15:00

Session 1A: PIRLS and TIMSS

Teacher characteristics and instructional quality

Chair: *Trude Nilsen*

Discussant: *Martin Hooper*

Room: A401

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Examining reading instruction that works: Teacher profiles across 14 countries in PIRLS | *Joshua McGrane, Therese N. Hopfenbeck, Grace Grima, Kit Double, and Jenny Lenkeit*

Comparing teacher recruitment policies in primary education in Iran | *Masoud Kabiri and Ebrahim Talaei*

The meaning of instructional quality for reading competence in diverse classrooms | *Franziska Schwabe and Nele McElvany*

Session 1B: Methodology

New approaches to analyze IEA data

Chair: *Jan-Eric Gustafsson*

Room: A403

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Optimally predictive cross-country growth models with applications to TIMSS | *David Kaplan and Agnes Stancel-Piqtak*

An examination of possible explanatory variables predicting the return of the TIMSS Early Learning Survey | *Nicole Wernert and Renee Sze Leung Kwong*

Predicting mathematics achievement: A machine learning approach using TIMSS 2015 US national public-use data | *Yuqi Liao and Trang Nguyen*

Multilevel modeling with large-scale assessment data: Uncovering sampling-related challenges | *Sabine Meinck*

Session 1C (Panel): ICCS

Exploring the role of ILSAs as change agents. Reflections on secondary data analysis of ICCS

Chair: *David Rutkowski*

Panelists: *Ralph Carstens, Christian Christrup Kjeldsen, Eva Klemenčič, and Maria Teresa Meléndez Irigoyer*

Room: A220

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Teaching tolerance in a globalized world | *Andres Sandoval-Hernandez, Maria Magdalena Isac, and Daniel Miranda*

Civic attitudes and behavioral intentions among 14-year-olds. How can education make a difference towards a more democratic and cohesive Europe? | *Zsuzsa Blasko, Patricia Dinis Mota da Costa, and Esperanza Vera-Toscano*

Session 1D: Engaging with IEA data

Panel on open source publishing with IEA

Moderator: *Dirk Hastedt*

Panelists: *Leslie Rutkowski, Seamus Hegarty, and Claudia Acuna*

Room: A405

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Session 2

Wednesday 26 June 2019, 15:30 – 17:00

Session 2A: TIMSS and ICCS

Students' attitudes and achievement in TIMSS, TIMSS Advanced mathematics, and ICCS

Chair: *Michael O Martin*

Room: A220

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Relationships between students' attitudes and beliefs, and achievement in advanced mathematics | *Laura Palmerio and Elisa Caponera*

Meaningful clusters of eighth grade students in 2015 TIMSS mathematics using motivation variables | *Michalis P. Michaelides, Elena Papanastasiou, Gavin T.L. Brown, Hanna Eklöf, Militsa Georgieva Ivanova, and Anastasios Markitsis*

The role of parents' literacy attitudes on children's reading achievement (PIRLS 2016) | *Virginie Dupont, Dominique Lafontaine, Patricia Schillings, Stéphanie Géron, and Charlotte Dejaegher*

The relationship between student engagement and achievement across countries within regions using latent class analysis | *Renee Sze Leung Kwong and Greg Thomas Macaskill*

Session 2B (Symposium): Methodology

The future of international assessment? The promise and challenge of a multistage design in IEA studies

Chair: *Leslie Rutkowski*

Discussants: *Sabine Meinck and Eugenio Gonzalez*

Room: A403

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Parameter estimation stability and probabilistic routing in MST | *Leslie Rutkowski and David Rutkowski*

Module length and routing methods in MST | *Dubravka Svetina, Leslie Rutkowski, and David Rutkowski*

Differential item functioning in MST | *Montesrrat Valdivia, Leslie Rutkowski, and David Rutkowski*

On test taking motivation in MST | *Yuan-Ling Liaw, Leslie Rutkowski, and David Rutkowski*

Session 2C: ICCS

Civic attitudes in a changing world

Chair: *Wolfram Schulz*

Room: A405

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Attitudes towards minorities: Changes from 2009 to 2016 using data from IEA's ICCS | *Clara Beyer and Falk Brese*

Proximity to refugee centers and attitudes toward immigration | *Diego Cortes and Mojca Rozman*

Civic knowledge and civic self-efficacy: How do they contribute to the promotion of democratic attitudes? | *Zsuzsa Blasko and Patricia Dinis Mota da Costa*

Explaining variation in teacher-reported student activities in the community | *Falk Brese and Julian Fraillon*

Session 2D: Engaging with IEA data

Roundtable on national experiences and use of IEA studies for teacher professional development

Chair: *Josef Basl*

Discussants: *Sue Thomson, Khaled Temsah, Elena Papanastasiu, Dana Pražáková, and Franck Salles*

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Session 3

Thursday, 27 June 2019, 13:00 – 14:30

Session 3A (Symposium): TIMSS

20 years of international large-scale assessments: How time series and trends can inform policymaking

Chair: *Rolf Strietholt*

Discussant: *Jan-Eric Gustafsson*

Room: A401

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Predicting change in mathematics achievement in Norway over time | *Rolf Vegar Olsen and Sigrid Blömeke*

Has equity changed in Norway over the last decades? | *Trude Nilsen, Julius Björnsson, and Rolf Vegar Olsen*

Twenty years of science motivation mirrored through TIMSS: Example of Norway | *Hege Kaarstein and Trude Nilsen*

Session 3B: Methodology

Methodological issues in large-scale assessments: Challenges and solutions (1)

Chair: *Julius Björnsson*

Room: A403

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Achievement gaps between immigrant and native students over time: Evidence from 20 years of TIMSS | *Ebru Erberber, Yifan Bai, Yuan Zhang, Frank Fonseca, Yemurai Tsokodayi, and Marissa Hall*

Aiming for measures of long-term trends in Grade 8 mathematics: Bridges from SIMS to TIMSS 2015 | *Monica Rosén, Erika Majoros, Stefan Johansson, and Jan-Eric Gustafsson*

Sensitivity of the RMSD for detecting item-level misfit in low-performing countries | *Jesper Tijmstra, Yuan-Ling Liaw, Maria Bolsinova, Leslie Rutkowski, and David Rutkowski*

A new powerful validation procedure to guarantee comparability in international attitude and test scales: 'Alignment' | *Ingrid Munck*

Session 3C: ICCS

Social media and civics culture: Evidence from ICCS 2016

Chair: *Julian Fraillon*

Discussant: *Maria Magdalena Isac*

Room: A405

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Social media harm institutional trust and thereby civic culture in Europe | *Mikael Sandberg*

Young people's use of social media and internet for civic engagement in 24 countries | *Wolfram Schulz and Tim Friedman*

School, church, and media: Explaining differences in civic knowledge in the bilingual school system of Estonia | *Triin Lauri, Kaire Pöder, and Anu Toots*

Session 3D: Engaging with IEA data

A symposium on *IEA Compass: Briefs in Education* series

Chair: *David Rutkowski*

Discussant: *Dirk Hastedt*

Room: A220

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PIRLS for teachers: Making PIRLS results more useful for practitioners | *Therese Hopfenbeck and Jenny Lenkeit*

Preparing the ground: The importance of early learning activities at home for fourth grade student achievement | *Sabine Meinck and Agnes Stancel-Piqtak*

Is democracy overrated? Latin American students' support for dictatorships | *Andres Sandoval-Hernandez*

No one likes a bully: How systematic is international bullying in fourth grade? | *Leslie Rutkowski and David Rutkowski*

Session 4

Thursday, 27 June 2019, 15:00 – 16:30

Session 4A: TIMSS and PIRLS

Explaining the gaps: Factors of student achievement

Chair: *Falk Brese*

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Differences in students' and teachers' characteristics between high and low performing classes in Slovakia | *Samo Varsik*

Reading comprehension growth from PIRLS Grade 4 to Grade 6 | *Bieke De Fraine, Koen Aesaert, and Jan Van Damme*

Nordic students' achievement and school effectiveness in TIMSS 2015 | *Marie Wiberg and Ewa Rolfsman*

Birth month and mathematics performance relationships in Norway | *Annette Hessen Bjerke, Elisabeta Eriksen, Andre Rognes, and Bjørn Smestad*

Session 4B: Methodology

Methodological issues in large-scale assessments: Challenges and solutions (2)

Chair: *Monica Rosén*

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Measurement invariance of mathematics attitudes scale across the Gulf Cooperation Council countries | *Abeer A. Alamri*

Item parameter equivalence in TIMSS 2015 | *Huseyin Husnu Yildirim, Selda Yildirim, and Norman Verhelst*

Performance differences between TIMSS's paper-pencil test and tablet test of Dutch Grade 4 students | *Eva R. Hamhuis, Martina R.M. Meelissen, and Cees A.W. Glas*

How to use the world as a laboratory: Teachers' role in enhancing equity | *Trude Nilsen and Jan-Eric Gustafsson*

Session 4C: ICCS

Regional analysis of ICCS data

Chair: *Andres Sandoval-Hernandez*

Room: A220
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Change or stability? Civic knowledge, classroom climate, and expected political participation in Latin American schools | *Daniel Miranda and Juan Carlos Castillo*

Young people's support for authoritarianism, trust in institutions, and expected political participation in five Latin American countries | *Wolfram Schulz*

Latin American students' attitudes toward the use of violence | *Citlalli Sanchez-Alvarez*

What you know and what you believe: Explaining tolerance of corruption in Latin American students | *Diego Alonso Carrasco Ogaz, Robin Banerjee, Ernesto Treviño, and Cristóbal Villalobos*

Session 4D: Engaging with IEA data

Innovative approaches to analyzing IEA data

Moderator: *Sabine Meinck*

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Country-level trends in early literacy activities: Predicting gains in PIRLS reading? | *Martin Hooper*

Analyzing trends in socioeconomic inequality and educational outcomes: Results and methodological strategies | *Yifan Bai*

Does computer access equal skill or does practice make perfect? | *Yemurai Tsokodayi*

Analyzing ePIRLS results internationally after adjusting for students' offline reading ability | *Martin Hooper*

Analyzing IEA data in R: Introducing the EdSurvey package and its direct estimation function | *Paul Bailey*

Session 5

Friday, 28 June 2019, 11:00 – 12:30

Session 5A: TIMSS, PIRLS, and ICILS

Utilizing in-depth analysis of large-scale assessment data to improve teaching

Chair: *Rolf Strietholt*

Room: A401

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Clarifying TIMSS Advanced mathematics 2015 results: A didactical approach through levels of mathematical knowledge operation | *Franck Salles*

Differential item functioning as a pedagogical tool | *Jeppe Bundsgaard*

Nerds or polymaths? Performance profiles at the end of primary education | *Olesya Gladushyna and Rolf Strietholt*

I know I can, but do I have the time? The role of teachers' self-efficacy and perceived time constraints in implementing cognitive-activation strategies | *Nani Teig, Ronny Scherer, and Trude Nilsen*

Session 5B: ICILS

Schooling and learning in the Digital Age: Evidence from ICILS 2013

Chair: *Julian Fraillon*

Discussant: *Eva Klemenčič*

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ICT-related school culture and differences in students' CIL: Results from IEA-ICILS 2013 | *Birgit Eickelmann, Julia Gerick, and Jeppe Bundsgaard*

Explaining differences in students' computer and information literacy by analyzing response times in IEA-ICILS 2013 | *Corinna Masek, Kerstin Drossel, and Birgit Eickelmann*

Gender differences in computer and information literacy: Some findings from ICILS 2013 | *Sue Thomson, Eveline Gebhardt, Kylie Hillman, and John Ainley*

Session 5C: ICCS

Civics and citizenship education in countries around the world

Chair: *Jens Bruun*

Room: A405

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Cross-national priorities for civic and citizenship education | *Tim Friedman, Gabriella Agrusti, Valeria Damiani, and Jennifer Hong*

Apathetic, distrustful, interested, passive, institutional, and participatory: Profiles of youth political participation in Latin America | *Ernesto Treviño, Diego Alonso Carrasco Ogez, Cristóbal Villalobos, and Natalia López*

Aiming for sense of citizenship across the Nordic countries: Comparing priorities in citizenship education 2009-2016 | *Idunn Seland, Lihong Huang, Jens Bruun, Cecilia Arensmeier, and Jan Markus Löfström*

Italian teachers' preparation and training to teach civic and citizenship education topics and skills: Findings from ICCS 2016 | *Valeria Damiani, Elisa Caponera, and Bruno Losito*

Session 5D*

Poster session

Chair: *Seamus Hegarty*

Discussant: *Lauren Musu*

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Analysis of TIMSS 2015 framework: Input to the development of internationally-benchmarked 21st century Philippine assessment | *Marilyn Ubina Balagtas, Danda Crimelda Buhain Garcia, and Dexter Cheng Ngo*

An application of PRMSE to evaluate subscale score value in TIMSS 2015 fourth grade mathematics | *Kondwani Kajera Mughogho*

Modeling students' attitudes about learning mathematics in TIMSS 2015 context questionnaire | *Militsa Georgieva Ivanova and Michalis P. Michaelides*

Perceived math self-efficacy as predictors of pursuing a STEM degree | *Richard Carlos Limtuatco Velasco, Lee Kenneth Jones, and Yujiro Fujiwara*

Achievement profiles in mathematics and science among Flemish fourth graders: An exploratory analysis | *Lies Appels, Jerich Faddar, Sven De Maeyer, and Peter Van Petegem*

Norwegian science teachers' content coverage in middle school: Patterns and factors | *Stephan Daus*

Citizenship through the IEA waves: Cross-cohort and country measurement invariance of two citizenship dimensions | *Federico Viertel-Arze*

Measurement invariance in large-scale assessments using group-level fit: Patterns across scales and countries | *Janine Buchholz and Johan Braeken*

Two decades of ILSAs: Meta-interpretation of student achievement results via comparison matrix | *Mariusz Gaczyński*

* Each contributor to the session will give a short 3 minute presentation of their poster. One poster will be awarded the Constantinos Papanastasiou Poster Prize. For more information, please see the session abstract.

Session 6

Friday, 28 June 2019, 13:30 – 15:00

Session 6A: TIMSS
Teaching and instruction
Chair: *Franck Salles*

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Science teaching practices and learning outcomes in high-performing Asian countries: Comparing TIMSS and PISA 2015 | *Anindito Aditomo*

School autonomy and the distribution of teaching quality: An international comparative perspective | *Leah Natasha Glassow-Hill, Kajsa Yang Hansen, and Emilie Franck*

Instructional sensitivity of the TIMSS science test: Adjacent-grades within schools | *Stephan Daus, Agnes Stancel-Piqtak, and Johan Braeken*

Differences in determinants for ICT use and students' achievement in mathematics: Secondary analyses of TIMSS 2015 | *Julia Gerick, Birgit Eickelmann, and Kerstin Drossel*

Session 6C
Socioeconomic background and student achievement: TIMSS and PIRLS
Chair: *Jan Mejdning*
Discussant: *Plamen Mirazchiyski*

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Deconstruction of the negative social heritage? A search for variables confounding the simple relation between socioeconomic status and student achievement | *Rune Muller Kristensen*

Effects of early tracking on performance and inequalities in achievement: Combined evidence from PIRLS, TIMSS, and PISA | *Andrés Strello, Rolf Strietholt, Charlotte Siepmann, and Isa Steinmann*

High achievement in mathematics and science: A multilevel analysis of TIMSS 2015 data for Ireland | *Vasiliki Pitsia, Anastasios Karakolidis, and Gerry Shiel*

Session 6D: Engaging with IEA data
Free online data platforms and tools for education researchers
Authors: *Falk Brese, Yemurai Tsokodayi, and Yuqi Liao*

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