



Last minute changes

SYMPOSIA

- **Symposium 08 - TEACHERS UNDERSTANDING OF LANGUAGE AND LITERACY AS A KEY FOR INCLUSIVE SCIENCE EDUCATION (ISE)**, Chair(s): Anders Jakobsson, Discussant: Russell Tytler has been moved to **Wednesday, August 28, 09:00 – 11:00, Room B7**
- **Symposium 23 - FACTORS INFLUENCING TEACHING, LEARNING, AND ACCEPTING EVOLUTION**, Chair(s): Daniela Fiedler, Discussant: Marcus Hammann, has been moved to **Thursday, August 29, 09:00 – 11:00, Room G3**
- **Symposium 29 - STUDENTS AWARENESS AND OPPORTUNITIES FOR STEM CAREER**, Chair(s): Silvija Markic, Sarah Hayes, Discussant: Rachel Mamlok-Naaman, has been moved to **Tuesday, August 27, 09:00 – 11:00, Room G6**
- **Symposium 43 - SCIENCE IN EXHIBITIONS: DIFFERENT PERSPECTIVES FROM DIFFERENT ACTORS.**
Chair(s): Marianne Achiam, Alexandra Moormann, Discussant: Kerstin Kremer, has been moved to **Wednesday, August 28, 09:00 – 11:00, Room B2**

ORAL PRESENTATIONS

- The presentation **“WHY SOME PERSIST: CASE STUDIES OF ADOLESCENT GIRLS' EXTRACURRICULAR SCIENCE PARTICIPATION”**, Stephanie Rafanelli, has been moved to the session OP165 - STRAND 2 - REASONING AND CRITICAL SKILLS, **Monday, August 26, 17:00 -18:30, Room B1**
- The presentation **“SCIENCE PARTICIPATION: IS IT MORE IMPORTANT TO BE STUDIOUS THAN 'SCIENCEY'?”**, Lucy Yeomans, has been moved to the session “OP57 - STRAND 12 - GENDER, EDUCATIONAL DECISIONS AND PARTICIPATION, **Wednesday, August 28, 15:00 – 17:00, Room B7**
- The presentation **“EXPLORING ASPECTS OF PRE-SERVICE PRIMARY TEACHERS' EPISTEMIC COGNITION WHILE DEALING WITH A SOCIO-SCIENTIFIC ISSUE: A THINK-ALOUD STUDY”**, Lida Desikou, Athina Koutsianou, Anastassios Emvalotis, has been moved to the session “OP147 - STRAND 12 - STEM PARTICIPATION AND ASPIRATIONS”, **Friday, August 30, 09:00 – 11:00, Room B7**
- The presentation **“ENHANCING PHYSICS TEACHERS' PROFESSIONAL DEVELOPMENT USING A DESIGN-BASED RESEARCH PROJECT”**, Thomas Frågåt, Maria Vetleseter Bøe, Carl Angell, has been moved to the session “OP70 - STRAND 14 - PROFESSIONAL DEVELOPMENT PROGRAMS OR COURSES, **Wednesday, August 28, 15:00 – 17:00, Room G8**
- The presentation **“CRITICAL THINKING DISPOSITION IN SCIENCE RESEARCH APPRENTICESHIP PROGRAM FOR HIGH SCHOOL STUDENTS”**, Yehudit Judy Dori, Edy Merchi, Irit Sasson, has been moved to the session “OP51 - STRAND 2 - INTEREST AND MOTIVATION IN STEM”, **Wednesday, August 28, 15:00 – 17:00, Room B1**
- The presentation **“THE PEDAGOGICAL CHARACTERISTICS OF LEARNING TASKS IN MATHEMATICS AND SCIENCES IN PRIMARY SCHOOLS”**, Irit Sasson, has been moved to the session “OP137 - STRAND 16 - TEACHING APPROACHES AND PRACTICES”, **Thursday, August 29, 17:00 – 18:30, Room G5**
- The presentation **“SCIENCE LESSON IN JUNIOR HIGH SCHOOL FOCUSED ON THE RELATIONSHIP BETWEEN GLOBAL WARMING AND HEAVY RAINFALL”**, Kenta Nambahas, Hiroki Fujii, has been turned into a poster in “Interactive Poster P18 - STRAND 9 - CLIMATE & SUSTAINABILITY”, **Wednesday, 13:45 - 15:00, Room B7**
- The presentation **“HOW TO USE LANGUAGE IN IMMERSIVE ARGUMENT-BASED INQUIRY: A META-SYNTHESIS OF RESEARCH ON SCIENCE WRITING HEURISTIC APPROACH FROM 2000-2018”**, Jee Suh; Brian Hand; Ying-Chih Chen, has been moved to the session “OP18 - STRAND 13 - LEARNING AND TEACHING INQUIRY”, **Monday, August 26, 15:00 - 16:30, Room G1**



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- The presentation **“A FRAMEWORK OF EARLY CHILDHOOD SCIENCE AND DIGITAL LEARNING: A COMPARATIVE ANALYSIS OF AUSTRALIAN AND FINNISH CURRICULA”**, Sari Havu-Nuutinen; Sarika Kewalramani; Sini Kontkanen; Susanna Pöntinen; Nikolai Veresov, has been moved to the session **“OP178 - STRAND 15 - LEARNING ABOUT BIOLOGY AND HEALTH IN EARLY CHILDHOOD SCIENCE, Monday, August 26, 17:00 - 18:30, Room F2**
- The presentation **“INTRODUCING IRANIAN PRIMARY CHILDREN TO ATOMS AND MOLECULES”**, Fatima Baji, Carole Haeusler, has been moved to the session **“OP130 - STRAND 15 - PLAY AND INQUIRY IN EARLY CHILDHOOD SCIENCE, Thursday, August 28, 17:00 - 18:30, Room F1**
- The presentation **“THE STRATEGIC UNDERGRADUATE STEM TALENT ACCELERATION INITIATIVE (SUSTAIN): IMPACTS ON THE SOCIALIZATION OF LOW-INCOME COLLEGE STUDENTS”** scheduled in OP48 STRAND 17 - STEM, RRI AND INTERDISCIPLINARITY AT UNIVERSITY LEVEL, Tuesday, August 27, 15:00 - 16:30, Room G8 **has been cancelled**
- The presentation **“ENERGY TRANSITION TO RENEWABLES: HOW STUDENTS' AND SCIENTISTS' METAPHORS (MIS)LEAD THE DEBATE”** scheduled in **“OP142 - STRAND 8 - REASONING AND CONCEPTIONS IN SSI”**, Friday 30, 09:00 – 11:00, Room B2 **has been cancelled**

POSTER PRESENTATIONS

- The poster **“ENERGY TRANSITION TO RENEWABLES - RECONSTRUCTION OF STUDENTS' AND SCIENTISTS' CONCEPTIONS FOR SCIENCE EDUCATION”** scheduled in SP01 - SUMMER SCHOOL 2017, Room C1, Tuesday, 13:45 - 15:00 **has been cancelled**
- The poster **“EMBODIED SIMULATIONS IN BIOLOGY EDUCATION”** scheduled in SP03 – SUMMER SCHOOL 2018, Room F2, Tuesday, 13:45 - 15:00 **has been cancelled**

SESSION TITLE CHANGES (NEW TITLES)

- OP178 - STRAND 15 - LEARNING IN EARLY CHILDHOOD SCIENCE
- OP88 - STRAND 14 - DESCRIBING, SUPPORTING AND ASSESSING TEACHING PRACTICES AND PERFORMANCE