

II Interdisciplinary Scientific Conference „Mathematical Transgressions”

March 15 – 19, 2015 Cracow, Poland

Keynote Speakers



Joseph Krajcik

Joseph Krajcik is director of the CREATE for STEM Institute and a faculty member in science education. A former high school chemistry and physical science teacher, Krajcik spent 21 years at the University of Michigan before coming to MSU in 2011.

During his career, he has focused on working with science teachers to reform science teaching practices to promote students' engagement in and learning of science. He was principal investigator on a National Science Foundation project that aims to design, develop and test the next generation of middle school curriculum materials to engage students in obtaining deep understandings of science content and practices.

He is currently serving as head of the Physical Science Design Team to develop the Next Generation Science Standards. Krajcik, along with Professor Angela Calabrese Barton from MSU, serves as co-editor of the Journal of Research in Science Teaching. Krajcik has authored and co-authored curriculum materials, books, software and over 100 manuscripts, and makes frequent presentations at international, national and regional conferences. He is a fellow of the American Association for the Advancement of Science and has served as president of the National Association for Research in Science Teaching (NARST), from which he received the Distinguished Contributions to Science Education Through Research Award in 2010.

(source: <http://education.msu.edu/search/Formview.aspx?email=krajcik%40msu.edu>)



Kobus Maree

Prof Maree is a Professor in the Department of Educational Psychology at the University of Pretoria. His main research interests are career construction counselling for life designing, emotional intelligence and social responsibility, and learning facilitation in mathematics. He links research results to appropriate career choices and to life designing.

Past editor of the *South African Journal of Psychology*, managing editor of *Gifted Education International*, co-editor of the *SA Journal of Science and Technology* and a member of several national and international bodies, including the National Career Development Association (USA), the Society for Vocational Psychology (SVP) (USA), the International Association of Applied Psychology (IAAP) (USA), the Psychology Association of South Africa (SA), the South African Academy of Science and Arts (SA Acad), and the Association of Science of South Africa (ASSAf). He has been the author of more than 120 peer reviewed articles and 60 books or chapters in books since the beginning of 2002. In 2009, he was awarded the Stals Prize of the South African Academy of Science and Arts for exceptional research and contributions to psychology. In 2014, he was awarded the Stals Prize of the South African Academy of Science and Arts for exceptional achievement in Education. Prof Maree has supervised 43 doctoral theses and master's dissertations since 2001.

He was awarded the Chancellor's Medal for Teaching and Learning from the University of Pretoria in 2010 and has been nominated successfully as an Exceptional Academic Achiever on four consecutive occasions (2003-2005, 2006-2008, 2009-2013, 2014-2016). He has a B rating from the NRF. A regular keynote speaker, he was, for instance, invited to be one of two State-of-the-Science speakers at the 5th World Conference of Psychology, Counselling and Guidance (Dubrovnik, Croatia, 1-3 May, 2014; topic: **Examining the merits of a brief, quantitative+qualitative (career) counselling strategy**) and one of the State-of-the-Science speakers (Division 16: Counselling Psychology) at the International Congress of Applied Psychology, the flagship event on the international psychology calendar, which will be held in Paris, 8-13 July 2014. Topic: **Connecting life-themes to construct self-portraits.**



Sylvia Rimm

Dr. Rimm is a psychologist, director of Family Achievement Clinic in Cleveland, Ohio, and is a clinical professor at Case Western Reserve School of Medicine. She also counsels gifted children and their families at Menlo Park Academy, a charter school in Cleveland.

Dr. Sylvia Rimm's many years as a contributing correspondent to NBC's Today Show and as a favorite personality on public radio make her a familiar child psychologist to many audiences. She gained a national following by her common sense and practical parenting and teaching advice. She has a deep understanding of how kids think and interact, and is an inspiring and motivating presenter. In her nationally syndicated parenting column with Creators Syndicate, Dr. Rimm answers hundreds of letters each year from parents around the world.

Many books have been authored by Dr. Rimm, including *How to Parent So Children Will Learn* and *Why Bright Kids Get Poor Grades*, both 2008 National Best Books award winners from USA Book News. In addition, Dr. Rimm has also written *Growing Up Too Fast: The Rimm Report on the secret Lives of America's Middle Schoolers*, *Rescuing the Emotional Lives of Overweight Children*, *Keys to Parenting the Gifted Child*, *Raising Preschoolers*, *See Jane Win*, *How Jane Won*, and *See Jane Win for Girls*.

Dr. Rimm is co-author with Gary A. Davis and Del Siegle of the textbook *Education of the Gifted and Talented (6th edition)*. She served for many years on the Board of Directors of the National Association for Gifted Children (NAGC), and received the prestigious Anne F. Isaacs, Robert Rossmiller and Palmarium awards for her lifetime contributions to gifted children.

Dr. Rimm speaks and publishes internationally on family and school approaches to guiding children toward achievement, reversing underachievement, gender issues in achievement, and social and emotional issues related to giftedness and creativity. She is a dynamic and inspiring speaker who fascinates audiences of all ages and backgrounds, tailoring her educational talks to the special themes of the audience.

(source: <http://www.sylviarimm.com/bio.html>)



Bernard Sarrazy

Bernard Sarrazy is a professor of Educational sciences at the University Bordeaux, France. Director of the department Educational Sciences for two years and the director of the Laboratoire Cultures, Education, Sociétés, at present he is the director of research team « Anthropologie and dissemination of knowledge ».

In his research he focuses on the study of phenomena of mathematics education at the intersections of post-structuralist anthropology and the Theory of didactical situations.

He pays special attention to anthropological and social determinations of the relationships of pupils towards didactical contract.



Alan Schoenfeld

Alan Schoenfeld is the Elizabeth and Edward Conner Professor of Education and Affiliated Professor of Mathematics at the University of California at Berkeley. He is a Fellow of the American Association for the Advancement of Science and of the American Educational Research Association (AERA), and a Laureate of the education honor society Kappa Delta Pi; he has served as President of AERA and vice President of the National Academy of Education. He holds the International Commission on Mathematics Instruction's Klein Medal, the highest international distinction in mathematics education; AERA's Distinguished Contributions to Research in Education award, AERA's highest honor; and the Mathematical Association of America's Mary P. Dolciani award, given to a pure or applied mathematician who is making a distinguished contribution to the mathematical education of K-16 students.

Alan has written, edited, or co-edited more than two hundred pieces on thinking and learning, including twenty-two books. His most recent book, *How we Think*, provides detailed models of human decision making in complex situations such as teaching. His interests include mathematical problem solving, assessment, equity, decision making, mathematics teaching, and professional development. His current R&D projects involve understanding and supporting teaching that produces students who are powerful thinkers.



Erich Ch. Wittmann

Erich Ch. Wittmann, born in 1939, studied mathematics and physics at the University of Erlangen/Bavaria and finished with master degrees in both subjects. In 1967 he received the PhD. in mathematics (group theory) from the University of Erlangen and moved to mathematics education by following Hans Freudenthal's advice. In 1969 he was appointed full professor of mathematics education at the University of Dortmund and worked in this position until his retirement in 2004.

Erich Wittmann's research is based on a view of mathematics education as a "design science". This approach has been put to practice by him in the project "Mathe 2000" founded in 1987. The innovative textbook DAS ZAHLENBUCH originating from this project has been adapted to several countries.

In 1998 Erich Wittmann received the honorary doctorate from the University of Kiel, and in 2013 he was awarded the Johannes Kühnel Prize. His international reputation has been acknowledged by the invitation to present a plenary lecture at ICME 9, Tokyo 2000.