

ECerS Awardees

JECS TRUST AWARDS CEREMONY

Room PÁTRIA, Monday, July 10, 9:45–10:45

Chairs: Anne Leriche, Richard Todd

JECS Trust Award

Room PÁTRIA, Monday, July 10, 9:55–10:35

Rodrigo Moreno

Better ceramics through colloid-chemistry

Institute of Ceramics & Glass, Synthesis and Colloidal Processing Group, Spain



Dr. Rodrigo Moreno obtained the PhD degree in Chemistry by Universidad Autónoma de Madrid in 1988. He has developed all his scientific activity at the Institute of Ceramics & Glass (CSIC, Spain), where he became Tenured Scientist in 1990, Research Scientist in 1999, and Research Professor in 2004, position that he maintains currently. He is the leader of the Synthesis and Colloidal Processing Group of ICV from 2005. His main interest lies on the synthesis of ceramic powders, the colloidal stability and rheology of ceramic suspensions, and the manufacture of structural and functional materials by colloidal processing techniques.

He is co-author of more than 360 articles (260 in journals included in SCI), 9 patents, several book chapters, and one book. He has been member of the organization committees of around 50 national and international conferences and has pronounced more than 60 invited lectures. Prof. Moreno is member of the Spanish Ceramic Society, the Spanish Society of Materials, and the American Ceramic Society. He maintains a very active work in the Journal of the European Ceramic Society, where he has published more than 80 papers and is currently one of the editors. He was distinguished as a Fellow of the European Ceramic Society in 2015.

J ECS Best Paper Award

Haibo Zhang

Preparation and enhanced electrical properties of grain-oriented $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ -based lead-free incipient piezoceramics

School of Materials Science and Engineering, Huazhong University of Science and Technology, China



The paper was published in the Journal of the European Ceramic Society 35 (2015) 2501–2512.

Haibo Zhang is an associate professor in School of materials science and Engineering at Huazhong University of Science and Technology, Wuhan China. Haibo Zhang received his bachelor's degree in Microelectronics and Solid State Electronics from Huazhong University of Science and Technology in 2003. He obtained his Ph.D. degree from Huazhong University of Science and Technology in 2008 concerning the preparation and characterization of BNT based lead free piezoelectric thick films. He joined the Research Laboratory of Hydrothermal Chemistry, Faculty of Science, Kochi University, Japan in 2008, and has been a postdoctoral researcher for two and a half years in Kochi University Japan. Zhang got a faculty position in School of Materials Science and Engineering at Huazhong University of Science and Technology in 2011. From 2012 to 2014, he worked as a Humboldt Research Fellow with Professor Jürgen Rödel in Institute of materials science at Technique University of Darmstadt, Germany. Since 2014 he works as an associate professor in School of materials science and Engineering at Huazhong University of Science and Technology, Wuhan China. He has published over 60 peer-reviewed SCI research papers and had 10 Chinese patents. Zhang's research interests include (i) lead-free piezo- and ferroelectrics materials, (ii) preparation and characterization of piezoelectric multilayer actuators and transducers. His current research concerns the mechanisms of ferroelectric-relaxor composite ceramics. He is member of the Chinese Ceramic Society.

ECerS AWARD CEREMONY

Room PÁTRIA, Wednesday, July 12, 14:30–17:00

Chair: Pavol Šajgalík

Stuijts Award

Room PÁTRIA, Wednesday, July 12, 14:40–15:15

Anne Leriche

Ceramics for better healthcare

*University of Valenciennes and Hainaut Cambrésis,
Laboratory of Ceramics and Associated Processes, France*



Anne Leriche is a full professor at the University of Valenciennes and Hainaut Cambrésis – “Laboratory of Ceramics and Associated Processes” (LMCPA) in Maubeuge, France.

She got an M.Sc. in Chemistry in 1981 and the Doctorate of Sciences in 1986, both with honors from the State University of Mons, Belgium. She obtained the diploma “Habilitation to supervise researches” in 1992 from the University of Valenciennes (France).

She obtained a grant to start her doctorate thesis from a Belgian institution (1981–1983) then became successively researcher at the Belgian Ceramic Research Centre in Mons (1983–1989) and R&D head of a start-up company Neoceram SA (1989–1990). In 1990, Anne Leriche joined the LMCPA at the University of Valenciennes as researcher. She has been Lecturer from 1991 to September 1994, then Reader and finally full Professor in 2006. She has been Director of the LMCPA lab from September 1999 to September 2016. She received a French Education Award called “Chevalier” (knight) “Palme académiques”.

During her career, Anne Leriche supervised 20 theses, participated to several European projects and published more than 150 papers. She was editor of 1 book and 3 book chapters and is co-author of 4 patents. She presented a lot of oral talks and 17 invited conferences in several countries (Europe, China, Korea and the USA). She was lecturer in 3 International and 2 National Ceramic Schools and organized 4 international conferences.

Her main research fields concerns the synthesis and characterization of ceramic matrix composites (zirconia toughened alumina, mullite-zirconia by reaction sintering, silicon carbide reinforcement of various matrix, nanocomposites). She has been also active in the development of processes as assisted sintering methods using pressure or microwave, etc. for thermomechanical ceramics and bioceramics. Recent works concern the functionalization of bioceramics.

Anne Leriche is currently President of the JECs Trust, Treasurer of the French Ceramic Society, Past-President of the French Ceramic Society after 10 years of presidency (2006–2016), Past-President of the European Ceramic Society and member of the Belgium Ceramic Society board. She was entitled “fellow of ECerS” in 2013 and was elected to the World Academy of Ceramics in 2011.

Richard Brook Award

Room PÁTRIA, Wednesday, July 12, 15:15–15:50

Kathleen Richardson

Chalcogenide glasses – a versatile platform for innovations in the infrared

*Optics and Materials Science and Engineering at CREOL,
College of Optics and Photonics at the University of Central FL, USA*



Dr. Kathleen Richardson is currently Professor of Optics and Materials Science and Engineering at CREOL / College of Optics and Photonics at the University of Central FL, where she runs the Glass Processing and Characterization Laboratory (GPCL). Most recently at Clemson University, she and her research team carry out synthesis and characterization of novel glass and glass ceramic materials for optical applications, examining the role of structure/property relationships on resulting optical function and performance in bulk, planar and fiber optical materials. Prof. Richardson’s group has extensive industrial and government supported research programs evaluating materials for precision molded optics, the use of non-oxide glasses in chem-bio planar sensors, evaluation of complex material interactions in next-generation integrated opto-electronic chip design, and in nano-composites for advanced detection and optical applications. Prof. Richardson’s group is a leading source of expertise in the evaluation of photo-induced structure/property modification mechanisms in non-oxide glasses for optical applications, and has authored more than 220 peer-reviewed publications, numerous proceedings and book chapters, and has organized and chaired multiple domestic and international meetings within her discipline.

Dr. Richardson is a past-President of the American Ceramic Society (ACerS), a past-Chair of ACerS’ Glass and Optical Materials Division (GOMD) and a past-President of the National Institute of Ceramic Engineers (NICE). She recently completed her term as a member of the Board of Directors of the Society of Photo-Optical Instrumentation Engineers (SPIE) and currently serves on the Coordinating Technical Committee (CTC) of the International Commission on Glass (ICG). As a result of these activities, she has enabled many multi-institutional, international education and training activities in Glass and Ceramics which have benefited numerous US and International students and young professionals under her mentorship and/or supervision.

Most recently, Dr. Richardson has served on advisory boards of numerous organizations, including the Board of Directors of the American Ceramic Society (ACerS), Virginia Tech's Materials Science and Engineering Department, the NSF-ERC on Mid-Infrared Technologies for Health and the Environment (MIRTHE) at Princeton University and as part of the Australian Research Council's Centre of Excellence for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS), in Sydney Australia. She is a recognized world leader in infrared glass research and education, and as a result of these efforts, currently holds the rank of Fellow, in the American Ceramic Society, the Society of Glass Technology (UK), SPIE and the Optical Society of America (OSA). Since 2006, she has served as a member of the Board of Trustees at Alfred University.

Industrial Award

Room PÁTRIA, Wednesday, July 12, 15:50–16:25

Joachim Heym

Additive manufacturing of complex, large volume components of technical ceramics for plant engineering

Schunk Ingenieurkeramik GmbH, Germany



Joachim Heym is the Managing director of the Schunk Ingenieurkeramik GmbH since 2009. He has been working since 1985 within the Schunk Group as Production Manager, Sales Manager, Business Unit Manager.

Joachim Heym is chairman of the DKG (Deutsche Keramische Gesellschaft – German Ceramic Society) board since 2015 and has been member of the board of the DKG since 2009. He is also Board Member and Vice President of VKI, the Federation Ceramic Industry in Germany. Joachim Heym has also been President of EuTeCer (European Technical Ceramic Federation, Brussels) during 4 years, from 2010 to 2014.

Young Scientist Award

Room PÁTRIA, Wednesday, July 12, 16:25–17:00

David Salamon

Pressure-less rapid heating of nanoparticle compacts by infrared heat transfer

*Central European Institute of Technology (CEITEC),
Brno University of Technology, Czech Republic*



David Salamon is associate professor and a project leader at the Central European Institute of Technology (CEITEC) in Brno University of Technology in the Czech Republic.

He received his master degree in Chemistry of materials at Faculty of Chemistry, Brno University of Technology in 2000, and master degree in Company management and economics at Faculty of Business and Management, Brno University of Technology in 2002. He achieved Ph.D. degree in Inorganic technology and materials from the Institute of Inorganic Chemistry, Slovak Academy of Sciences after defending his thesis “Preparation of alpha-Sialon with defined microstructure” in 2005. After Ph.D. he worked at the Arrhenius Laboratory in Stockholm University in Sweden, and he moved for his second postdoc to Faculty of Science and Technology in Twente University, Netherlands in 2007. After return to Czech Republic in 2011 he is working at Brno University of Technology, where he was appointed associate professor in 2016.

Currently he is author or co-author of 26 publications recorded in Web of Science®, he has one patent, related h-index is 7. Main focus of his research is on the application of non-conventional methods (such as Spark Plasma Sintering and Microtemplating) for microstructure tailoring of structural ceramic materials. He is a long term member of The European Ceramic Society and an active participant on the ECerS meetings since 2005. During his research career he was member of Slovak, Dutch, and Czech Ceramic Societies. Recently, he was elected to the board of the Czech Ceramic Society.