

→ Okazaki, Japan (12th Ed. 2006) → Montreal, Canada (13th Ed. 2009) → Doha, Qatar (14th Ed. 2012)

POC-2014 was recognized as a very successful scientific event, and was attended by over 100 registered participants from 28 countries (Austria, Canada, Chile, China, Czech Republic, Egypt, France, Germany, Greece, Hungary, Iran, Israel, Italy, Japan, Mexico, Poland, Portugal, Qatar, Romania, Switzerland, Russia, Serbia, Spain, The Netherlands, Turkey, Ukraine and USA), located on 5 continents (Africa, Asia, Europe, North America, South America).

The conference presentations focused on 6 topics: advances in polymer synthesis; novel functional polymers; biocatalysis in polymer synthesis; polymers for catalysis and energy applications; polymers for separations and environmental protection; and polymers in medicine, biochemistry and agriculture. The main conference presentations were offered by 2 Keynote Speakers: Dr. Bogdan C. Simionescu, Department of Natural and Synthetic Polymers, Institute of Macromolecular Chemistry, Iasi, Romania, lectured on "Polymer engineering focusing on drug/gene delivery and tissue engineering: from simple towards complex architectures and hybrid materials"; and Dr. Ghislain David, Institut Charles Gerhardt, Ecole Nationale Supérieure de Chimie de Montpellier, France, which lectured on "Phosphorus-containing polymers: New trends". Additionally, the conference featured 12 Plenary Invited Lectures delivered by prominent scientists from different countries, as well as 28 Oral Presentations. Two Poster Sessions, with 63 presentations, showcased the latest results obtained by younger scientists.

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Macromolecular Complexes

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These proceedings are intended for scientists, engineers, and other technical personnel who seek a current assessment of the state of the science and technological opportunities presented by the rapidly growing field of macromolecular complexes.

The book is the result of technical contributions to the 15th International Symposium on Macromolecular Complexes (MMC-15) endorsed by IUPAC.

Under the chairmanship of Prof. Dr. Anthony Guiseppi-Elie and organized by faculty and students of the Center for Bioelectronics, Biosensors and Biochips at Clemson University's Advanced Materials Research Center, MMC-15 was held on 13-16 August 2013 in Greenville, South Carolina and on the campus of Clemson University in Clemson, South Carolina, USA.

The keynote address was delivered by Prof. Cato T. Laurencin (University of Connecticut, USA), while seven plenary addresses were delivered by Prof. Gero Decher (Strasbourg, France), Prof. Joseph M. DeSimone (University of North Carolina, USA), Prof. Sabine Flitsch (The University of Manchester, UK), Prof. Kazuhiko Ishihara (Tokyo University, Japan), Dr. Mkhulu Mathe (CSIR, South Africa), Prof. Hiroyuki Nishide (Waseda University, Japan), and Prof. Eduardo Pereira (University of Concepcion, Chile).

Thematically, the book is organized according to the topical conferences of the symposium. The themes for MMC-15 were Energy Harvesting and Energy Industry, Sustainability and Green Chemistry, Biotechnology and Biomedicine, and Global Health. These are pressing important areas where macromolecules play a vital role in transforming technology for the betterment of human kind. Among the topics addressed were: in the area of energy—superior polyelectrolyte membranes for fuel cells and polymers for low-cost high emissive light emitting diodes (OLEDs); in the area of sustainability and green chemistry—polymers for biodegradable packaging and monomers and polymers from biomass sources; in the area of biotechnology and biomedicine—bioactive hydrogels and supramolecular polymer assemblies for targeted drug delivery; and in the area of global health—polymer fibers for controlled flow in low-cost lateral-flow diagnostic devices and polymer membranes for desalination. Conference sponsors were BIODOT, Milliken, ACS Poly, ACS PMSE, Wiley, ABTECH Scientific, Inc., Clemson Bioengineering, Milliken, Western Carolina Section of the ACS, Michelin USA, and Clemson Chemical and Biomolecular Engineering.

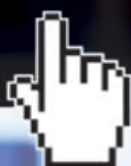
MMC-16 will be held at Wrocław University of Technology (WUT), Poland, 10-14 August 2015, under the chairmanship of Prof. Andrzej W. Trochimczuk.

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