Reinforcing foundations
to build the 2nd century of modern crystallography

Confirmed Lecturers so far

Vladislav Blatov
Samara State University, Russia

Gervais Chapuis
EPFL, Lausanne, Switzerland

Carmelo Giacovazzo
CNR Istituto di Cristallografia, Bari Italy

Cinzia Giannini
CNR Istituto di Cristallografia, Bari Italy

Antonella Guagliardi
CNR Istituto di Cristallografia, Como Italy

Victor Lamzin
EMBL, Hamburg, Germany

Claude Lecomte
Université de Lorraine, Nancy, France

J. Manuel Perez-Mato
Universidad del Pais Vasco, Bilbao Spain

Davide Proserpio
University of Milan, Italy

Venkatraman Ramakrishnan
Nobel Prize in Chemistry 2009

Randy J. Read
Institute for Medical Research, Cambridge U.K.

Thomas Schneider
EMBL, Hamburg, Germany

Consiglia Tedesco
University of Salerno, Italy

Giuseppe Zanotti
University of Padua, Italy

Mission
Modern crystallography is entering its 2nd century of life, being as vital and challenging as a young discipline. In the last decades, crystallography has experienced a rapid advance concerning the fundamental knowledge as well as the instrumentation and the automation of software and tools for structure solution, refinement and analysis. Such innovations have produced an enormous impact towards a deeper understanding of the structure and properties of matter and of the functionality of materials and molecular entities of all dimensions. Evidence for this can be found in a host of well-recognized novel findings. On the other hand, automated techniques typically discourage critical thinking and constitute a serious risk for young crystallographers, who may lose the capability of evaluating the accuracy and goodness of data and critically analysing the results. This risk has been increased by the reduction of fundamental Academic courses in crystallography all over Europe.

The ECS1 is directed to young researchers and Ph.D. students involved in different fields of structural sciences, including physics, biology, chemistry, mineralogy, materials science, cultural heritage. It aims at diffusing and sharing the idea of crystallography as a unique discipline: “crystallography is an excellent example of the universality of science”, to cite the Proclamation of 2014 as International Year of Crystallography. The School will provide the students with instruments for acquiring a deep know-how and a strong background on the fundamentals of crystallography. Students will also gain consciousness of progresses, limitations and perspectives of the crystallographic theories and methods, and of how they can be adapted to the different “flavours” of structural science, ranging from small molecule to large macromolecular assemblies. The fil-rouge of the multi-faceted methods to be delivered in this School is to provide students with fundamental interpretative and predictive information and ideas for further scientific developments.

Different facets of crystallography will be explored, and expectations for research in the next century discussed and analysed through a series of reviews from renowned teachers. Such contributions will be collected in the Educational Book associated to the School, with the aim of inspiring and suggesting ideas for novel research projects in crystallography.

Pavia, a town distinguished for its excellence in teaching since medieval times, lies on the banks of the Ticino River, in the heart of the Lombard plain, looking out on the Apennines. The history of the University of Pavia goes back to 825, when the Emperor Lothair I founded a prestigious school of rhetoric. In 1361 the Studium Generale was established under decree of Emperor Charles IV, and was granted by Pope Bonifacio IX the same rights as the University of Bologna and the University of Paris.

Pavia is located about 30 kilometres south of Milan. It is easy to reach, being situated on the railway connecting Milan to Genoa and very close to the highways A7 Milan-Genoa and A21 Turin-Piacenza.

Find out more at

http://2014.aicschool.org

https://www.facebook.com/ECASchool2014

Scientific and Programme Committee

Michele Zema University of Pavia Chair
Carlo Medali CNR-ICCOM Firenze Honorary Chair

Michele Saviano CNR-IC Bari President of AIC

Fermín Olalde Muñoz CSIC Granada ECA Representative

Rita Berisio CNR-IBB Napoli

Gervais Chapuis EPFL Lausanne

Victor Lamzin EMBL Hamburg

J. Manuel Perez-Mato Universidad del Pais Vasco, Bilbao

Davide Proserpio University of Milan, Italy

Venkatraman Ramakrishnan Nobel Prize in Chemistry 2009

Randy J. Read Institute for Medical Research, Cambridge U.K.

Thomas Schneider EMBL, Hamburg Germany

Consiglia Tedesco University of Salerno, Italy

Giuseppe Zanotti University of Padua, Italy

Organizing Committee

Michele Zema University of Pavia Chair

Roberto Oberti CNR-ICG Pavia Co-chair

AIC Commission for Crystallographic Teaching

Michele Zema coordinator, Rita Berisio, Marco Milanesio, Anna Moliterni

Local working group University of Pavia

Claudio Binda, Marcella Bini, Doretta Caspassi, Paolo Ghigna, Vincenzo Massarotti, Andrea Mattevi, Giorgio Spinolo, Serena C. Tarantino

Patrizia Rossi University of Firenze AIC Treasurer
1st European Crystallography School
Pavia
28 Aug - 6 Sept 2014

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

Put the dates on your agenda
with the support and auspices of

International Year of Crystallography 2014
National Research Council
University of Pavia
Conservatoire National des Arts et Métiers
Institute of Crystallography
Institute of Biostructure and Bioimaging
Institute of Geosciences and Earth Resources

With the support of:

Erasmus+ Lifelong Learning Programme
Education and Culture
IP 2013-14 N. 2013-1-IT2-ERKA10-52989

Erasmus Intensive Programme