



24th Congress and General Assembly of the International Union of Crystallography

Hyderabad International Convention Centre
21 - 28 August 2017, Hyderabad, India



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Welcome to India!



Brihadeeswarar Temple, Thanjavur

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Welcome to 24th IUCr Congress

The 24th Congress and General Assembly of the International Union of Crystallography is a state-of-the-art international convention set in the unique ambience of India. We extend a warm welcome to crystallographers from all across the world!

The Hyderabad International Convention Center (HICC), a green globe certified convention center, is the first of its kind in South Asia and compares to the best in the world in infrastructure, technology and service and is the venue for the 24th Congress.

The cutting-edge program consists of 3 plenaries, 40 keynote lectures, 119 microsymbiosia, posters, satellite meetings and workshops. A parallel program to the microsymbiosia runs on five days and covers topics that interest crystallographers and structural scientists. A large, modern and functional exhibition area is set up and positioned strategically to ensure maximum engagement with delegates. Coffee and lunches will be served gratis in the exhibition area to all registered participants for seven days.

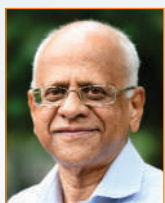
The congress offers a number of new and unique features for registered participants. These include spot presentations by young investigators and awards of ad hoc research grants, electronic posters and electronic abstracts linked to IUCr journals with free access to all IUCr journals for the duration of the meeting.

The inauguration of the congress is on the evening of 21 August 2017 followed by seven full days of scientific sessions. The closing ceremony is on the evening of 28 August 2017.

Workshops (half and full day) will be held on 21 August 2017 in the HICC and participation in one workshop of choice is free for all registered participants. However, the workshops are of limited capacity and early registration (at the time of payment of Congress fees) is required. Six satellite meetings will take place just before or after the Congress, mostly in Hyderabad.

The scope of crystallography is expanding towards related disciplines with applications in the industrial sector. Hyderabad is an important pharmaceutical center in India and there are more than 100 pharmaceutical industries in the area. We expect wide participation from these companies as well as from firms elsewhere in India. CryoEM is another emerging technique that has a strong presence in the Congress.

Just as the International Year of Crystallography (IYCr) 2014 sought to bring people and countries together through the message of science, we bring together many scientists from countries that were hitherto unrepresented in IUCr Congresses. The idea is to effectively spread the message of crystallography all over the world. This congress offers new networking opportunities amongst scientists and crystallographers from more than 80 countries, to create immense outreach for academia and industry. There are many discussion meetings within the Congress for regional groupings of countries. To facilitate all this, the IUCr is playing an active role with a formal representation in the Local Organizing Committee of the congress for the first time.



Gautam R. Desiraju
Chair - IUCr 2017

Local Organizing Committee

G. R. Desiraju, *Chair, Indian Institute of Science, Bangalore*

R. K. R. Jetti, *Vice Chair, Mylan Laboratories, Hyderabad*

J. A. R. P. Sarma, *Actimus Biosciences, Visakhapatnam*

K. Biradha, *Indian Institute of Technology, Kharagpur*

M. Zema, *International Union of Crystallography and University of Pavia*

C. M. Reddy, *Indian Institute of Science Education and Research, Kolkata*

R. Banerjee, *CSIR-National Chemical Laboratory, Pune*

U. Ramamurty, *Indian Institute of Science, Bangalore*



G. R. Desiraju
Chair



R. K. R. Jetti
Vice Chair



J. A. R. P. Sarma



K. Biradha



M. Zema



C. M. Reddy



R. Banerjee



U. Ramamurty



Plenary Speakers



Giacomo Chiari
USA



Susumu Kitagawa
Japan



John C. H. Spence
USA

Keynote Speakers



Simon J. L. Billinge
USA



Vladislav Blatov
Russia



Dario Braga
Italy



David Bryce
Canada



Jean Marc Castera
France



Neil Champness
UK



Henry Chapman
UK



Jim De Yoreo
USA



Jon Eggert
USA



Song Gao
China



Juri Grin
Germany



Michael Groll
Germany



John Helliwell
UK



Richard Henderson
UK



Jurg Hulliger
Switzerland



Farideh Jalilehvand
Canada



Dmitry Khalyavin
UK



Matteo Leoni
Italy



Ron Lifshitz
Israel



Hartmut Luecke
USA



Wladek Minor
USA



Ashwini Nangia
India



Massimo Nespolo
France



Sakura Pascarelli
France



Vanessa Peterson
Australia



Giuseppe Resnati
Italy



Bernhard Rupp
USA



Leonid Sazanov
Austria



Adriana Serquis
Argentina



Toshiyuki Shimizu
Japan



Janet Smith
USA



Dietmar Stalke
Germany



Sriram Subramaniam
USA



Dmitri Svergun
Germany



Nigel Unwin
UK



J. J. Vittal
Singapore



Hao Wu
USA



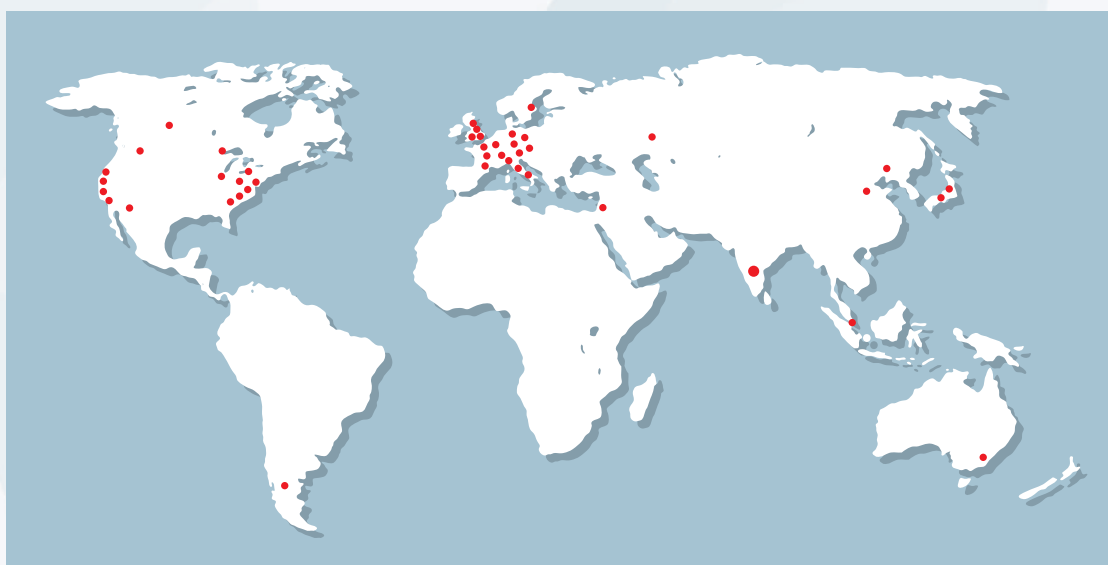
Ren-Gen Xiong
China



Vittal Yachandra
USA



Xiaodong Zou
Sweden



Keynote and Plenary Speakers' global locations

List of Microsymposia

Biological Macromolecules (Function)

MS No.	Session Title	Hall	Date	Time
MS-009	Enzymes, mechanism and drug design	MR 2.03-2.04	Tuesday, 22 August	1030-1305
MS-018	Ion transport	MR 2.03-2.04	Tuesday, 22 August	1455-1730
MS-036	Structural immunology and receptor signalling	MR 2.03-2.04	Wednesday, 23 August	1455-1730
MS-054	Mechanisms of bacterial resistance	MR 2.03-2.04	Thursday, 24 August	1455-1730
MS-063	Cell signalling, ubiquitination and cell death	MR 2.03-2.04	Friday, 25 August	1030-1305
MS-072	Solving the phase problem without experimental phasing	MR 2.03-2.04	Friday, 25 August	1455-1730
MS-081	Macromolecular machinery	MR 2.03-2.04	Saturday, 26 August	1030-1305
MS-090	Spectroscopy applications in biologically relevant systems	MR 2.03-2.04	Saturday, 26 August	1455-1730

Biological Macromolecules (Structure)

MS No.	Session Title	Hall	Date	Time
MS-001	Analysis and validation of protein ligand structures	Hall 4	Tuesday, 22 August	1030-1305
MS-010	Membrane proteins, lipid-protein interactions and membrane fusion	Hall 4	Tuesday, 22 August	1455-1730
MS-019	Interactions between proteins and nucleic acids	Hall 4	Wednesday, 23 August	1030-1305
MS-028	Long wavelength applications in macromolecular crystallography	Hall 4	Wednesday, 23 August	1455-1730
MS-037	Macromolecular structures by hybrid methods	Hall 4	Thursday, 24 August	1030-1305
MS-046	Macromolecular structure determination at XFEL sources	Hall 4	Thursday, 24 August	1455-1730
MS-055	New challenges in interpretation of structural data	Hall 4	Friday, 25 August	1030-1305
MS-064	Time and motion resolved imaging and diffraction	Hall 4	Friday, 25 August	1455-1730
MS-073	Minimizing radiation damage	Hall 4	Saturday, 26 August	1030-1305
MS-082	Techniques and insights into macromolecular crystallization	Hall 4	Saturday, 26 August	1455-1730
MS-091	Expression of macromolecular complexes	Hall 4	Sunday, 27 August	1030-1305
MS-100	Structure determination of biological macromolecule complexes by Cryo-EM	Hall 4	Sunday, 27 August	1455-1730

Crystal Engineering of MOFs and Open Framework Compounds

MS No.	Session Title	Hall	Date	Time
MS-002	Crystallographic approach for designing new metal organic frameworks	Hall 5	Tuesday, 22 August	1030-1305
MS-011	Applications of post-synthesis modified metal-organic frameworks	Hall 5	Tuesday, 22 August	1455-1730
MS-020	Controlling dimensions of porous crystalline polymers	Hall 5	Wednesday, 23 August	1030-1305
MS-029	Porous framework materials for gas adsorption	Hall 5	Wednesday, 23 August	1455-1730
MS-038	Porous framework materials for separation	Hall 5	Thursday, 24 August	1030-1305
MS-047	Crystalline materials characterization with combined techniques	Hall 5	Thursday, 24 August	1455-1730
MS-056	Direct observation of reactions and labile species within porous frameworks	Hall 5	Friday, 25 August	1030-1305
MS-065	New structures for natural and synthetic open framework materials	Hall 5	Friday, 25 August	1455-1730

Crystal Engineering of MOFs and Open Framework Compounds

MS No.	Session Title	Hall	Date	Time
MS-074	Porous framework materials for catalysis and renewable energy	Hall 5	Saturday, 26 August	1030-1305
MS-083	Polyoxometalates as building blocks for functional materials	Hall 5	Saturday, 26 August	1455-1730
MS-092	Bio-compatible porous materials for drug delivery	Hall 5	Sunday, 27 August	1030-1305
MS-101	Porous framework materials for sensing	Hall 5	Sunday, 27 August	1455-1730
MS-110	Phase transition in alloys and molecular solids	Hall 5	Monday, 28 August	1030-1305
MS-119	Interactions in solids under stress	Hall 5	Monday, 28 August	1455-1730

Crystal Engineering of Organic and Pharmaceutical Compounds

MS No.	Session Title	Hall	Date	Time
MS-003	Crystal engineering solutions to improve pharmaceutical tableting	Hall 6	Tuesday, 22 August	1030-1305
MS-012	Structure-property correlation in pharmaceutical solids	Hall 6	Tuesday, 22 August	1455-1730
MS-030	Crystallization mechanisms of small molecule organic materials	Hall 6	Wednesday, 23 August	1455-1730
MS-039	Structural chemistry in 2-D: Crystal growth, surface structure and morphology	Hall 6	Thursday, 24 August	1030-1305
MS-048	Supramolecular synthons at the confluence of theory and practice	Hall 6	Thursday, 24 August	1455-1730
MS-057	Charge density studies in crystal and cocrystal engineering	Hall 6	Friday, 25 August	1030-1305
MS-066	Bending, jumping and rotating: Motion and movement in crystalline solids	Hall 6	Friday, 25 August	1455-1730
MS-075	Tailored properties of molecular co-crystals	Hall 6	Saturday, 26 August	1030-1305
MS-084	Soft organic and inorganic materials: Gelation and crystallization	Hall 6	Saturday, 26 August	1455-1730
MS-093	Halogen bonding in crystal engineering	Hall 6	Sunday, 27 August	1030-1305
MS-102	Halogen bonding at the interface between small molecules and macromolecules	Hall 6	Sunday, 27 August	1455-1730
MS-111	Structural chemistry at non-ambient conditions	Hall 6	Monday, 28 August	1030-1305
MS-115	Polymorphism and structural transformations in crystalline materials	MR 2.01	Monday, 28 August	1030-1305

Instrumentation techniques and/or Computation

MS No.	Session Title	Hall	Date	Time
MS-004	Novel direct methods for electron diffraction and imaging	MR 1.01-1.03	Tuesday, 22 August	1030-1305
MS-005	Total scattering	MR 1.05	Tuesday, 22 August	1030-1305
MS-006	Computational materials design	MR 1.06	Tuesday, 22 August	1030-1305
MS-013	Quantitative electron imaging and tomography	MR 1.01-1.03	Tuesday, 22 August	1455-1730
MS-014	Advanced neutron sources in biological and materials sciences	MR 1.05	Tuesday, 22 August	1455-1730
MS-015	In-situ and in-operando characterization of energy materials	MR 1.06	Tuesday, 22 August	1455-1730
MS-023	Synchrotron and XFEL for materials at ambient and extreme conditions	MR 1.05	Wednesday, 23 August	1030-1305
MS-024	NMR Crystallography and related methods	MR 1.06	Wednesday, 23 August	1030-1305
MS-027	Synchrotron-based X-ray techniques and the environment	MR 2.03-2.04	Wednesday, 23 August	1030-1305
MS-031	Nanoparticles / nanostructures	MR 1.01-1.03	Wednesday, 23 August	1455-1730
MS-033	Magnetic diffuse scattering and magnetic PDF analysis	MR 1.06	Wednesday, 23 August	1455-1730
MS-040	Microstructure, defects, stress and strain determination and modelling with powder diffraction data	MR 1.01-1.03	Thursday, 24 August	1030-1305

Instrumentation techniques and/or Computation

MS No.	Session Title	Hall	Date	Time
MS-041	Advances in computational methods for powder diffraction	MR 1.05	Thursday, 24 August	1030-1305
MS-042	High-resolution spectroscopy	MR 1.06	Thursday, 24 August	1030-1305
MS-049	In-situ and in-operando characterization of catalytic and functional materials	MR 1.01-1.03	Thursday, 24 August	1455-1730
MS-050	Small-Angle Scattering studies of biomacromolecular kinetics	MR 1.05	Thursday, 24 August	1455-1730
MS-051	Recent developments in XAFS spectroscopy: Theory, instrumentation and data analysis	MR 1.06	Thursday, 24 August	1455-1730
MS-058	Powder diffraction and polymorphism. Search, phase transformations and new polymorph identification	MR 1.01 1.03	Friday, 25 August	1030-1305
MS-059	Quantitative electron diffraction	MR 1.05	Friday, 25 August	1030-1305
MS-060	XAS at extreme conditions	MR 1.06	Friday, 25 August	1030-1305
MS-067	Grain mapping and spatially-resolved diffraction - reaching the ppm scale.	MR 1.01-1.03	Friday, 25 August	1455-1730
MS-068	New X-ray sources: Storage rings – FELs- laser-based	MR 1.05	Friday, 25 August	1455-1730
MS-069	High-pressure crystallography as the ultimate interdisciplinary tool	MR 1.06	Friday, 25 August	1455-1730
MS-076	Diffuse scattering in crystalline structures	MR 1.01-1.03	Saturday, 26 August	1030-1305
MS-077	Coherence, spectroscopy and time resolved crystallography with new sources	MR 1.05	Saturday, 26 August	1030-1305
MS-078	Advances in high-pressure crystallographic methods	MR 1.06	Saturday, 26 August	1030-1305
MS-085	Dynamic phenomena and material functionality from inelastic X-ray scattering	MR 1.01-1.03	Saturday, 26 August	1455-1730
MS-086	Accurate high resolution diffraction studies at high pressure	MR 1.05	Saturday, 26 August	1455-1730
MS-094	Phase-plates: Improving resolution in CryoEM	MR 1.01-1.03	Sunday, 27 August	1030-1305
MS-096	XAFS of materials for clean energy	MR 1.06	Sunday, 27 August	1030-1305
MS-103	Methods for characterizing commensurate and incommensurate magnetic structures	MR 1.01-1.03	Sunday, 27 August	1455-1730
MS-105	New instrumental developments for electron crystallography	MR 1.06	Sunday, 27 August	1455-1730
MS-112	Laboratory sources vs. large scale facilities for charge density studies	MR 1.01-1.03	Monday, 28 August	1030-1305

Materials and Minerals

MS No.	Session Title	Hall	Date	Time
MS-007	Topology and symmetry of modular structures	MR 2.01	Tuesday, 22 August	1030-1305
MS-025	Crystallography of battery materials	MR 2.01	Wednesday, 23 August	1030-1305
MS-034	Synthesis and properties of multi ferroics and multi-functional materials	MR 2.01	Wednesday, 23 August	1455-1730
MS-052	Minerals/gems in industrial applications	MR 2.01	Thursday, 24 August	1455-1730
MS-061	Perovskites, perovskites and perovskites!	MR 2.01	Friday, 25 August	1030-1305
MS-070	Superconducting materials	MR 2.01	Friday, 25 August	1455-1730
MS-079	Topological insulators	MR 2.01	Saturday, 26 August	1030-1305
MS-088	Hybrid perovskites	MR 2.01	Saturday, 26 August	1455-1730
MS-097	Functional magnetic materials	MR 2.01	Sunday, 27 August	1030-1305
MS-106	Functional materials on the nanoscale	MR 2.01	Sunday, 27 August	1455-1730
MS-108	Charge and spin density in molecular and supramolecular magnets	MR 2.02	Sunday, 27 August	1455-1730
MS-122	Crystallography of materials for energy	MR 1.05	Monday, 28 August	1455-1730

Physical and/or Fundamental

MS No.	Session Title	Hall	Date	Time
MS-008	Magnetic order and its consequences	MR 2.02	Tuesday, 22 August	1030-1305
MS-017	Extending the boundaries of crystallography	MR 2.02	Tuesday, 22 August	1455-1730
MS-026	A bridge between two worlds: Graphs as structural descriptors	MR 2.02	Wednesday, 23 August	1030-1305
MS-035	Crystal structure relationships and their applications	MR 2.02	Wednesday, 23 August	1455-1730
MS-043	Models for refining the electron density from elastic scattering. Bob Stewart's legacy	MR 2.01	Thursday, 24 August	1030-1305
MS-062	Topological magnetic structures : monopoles, skyrmions, etc.	MR 2.02	Friday, 25 August	1030-1305
MS-089	Chemistry and physics of modulated and composite crystals	MR 2.02	Saturday, 26 August	1455-1730
MS-098	Recent advances in quasicrystal research	MR 2.02	Sunday, 27 August	1030-1305
MS-123	Magnetic structures at extreme conditions	MR 1.06	Monday, 28 August	1455-1730
MS-124	Beyond conventional topological analysis of electron density	MR 2.01	Monday, 28 August	1455-1730
MS-125	Small-Angle Scattering data formats, standards and repositories	MR 2.02	Monday, 28 August	1455-1730

Special Activities

MS No.	Session Title	Hall	Date	Time
MS-016	New approaches in crystallographic teaching	MR 2.01	Tuesday, 22 August	1455-1730
MS-021	Terminology issues in crystal engineering	Hall 6	Wednesday, 23 August	1030-1305
MS-032	Crystallography courses around the world	MR 1.05	Wednesday, 23 August	1455-1730
MS-044	Structural databases as teaching tools - Part A (macromolecules)	MR 2.02	Thursday, 24 August	1030-1305
MS-045	Structural data bases as teaching tools - Part B (organics, minerals)	MR 2.03-2.04	Thursday, 24 August	1030-1305
MS-053	Scientific value of raw data	MR 2.02	Thursday, 24 August	1455-1730
MS-071	Crystallographic patterns in art and cultural heritage	MR 2.02	Friday, 25 August	1455-1730
MS-080	Emerging science in the emerging world	MR 2.02	Saturday, 26 August	1030-1305
MS-087	How does crystallography help you in your career?	MR 1.06	Saturday, 26 August	1455-1730
MS-095	Crystallography for Space Sciences	MR 1.05	Sunday, 27 August	1030-1305
MS-099	Crystallographic data and structure validation from data collection to publication - IUCr setting standards	MR 2.03-2.04	Sunday, 27 August	1030-1305
MS-104	Synchrotron measurement in conservation and cultural heritage	MR 1.05	Sunday, 27 August	1455-1730
MS-107	Robust programming for CIF, NeXus, and related file structures	MR 2.02	Sunday, 27 August	1455-1730
MS-109	CryoEM: Method of the decade	Hall 4	Monday, 28 August	1030-1305
MS-113	Anticipating the Harvest: Post IYCr	MR 1.05	Monday, 28 August	1030-1305
MS-114	Crystallography and cultural heritage: From microsampling to noninvasive techniques	MR 1.06	Monday, 28 August	1030-1305

Poster Presentations

Posters are as important as oral talks to disseminate scientific information. As each and every microsymposium is associated with several poster presentations, over 650 posters will be presented. E-posters are included for the first time in an IUCr congress. We are happy to inform you that several awards are in store for the best posters.

List of Workshops

Monday, 21 August 2017 - 0900 Hrs – 1600 Hrs

Registration Details : Congress registered delegates can opt for ONLY ONE of the free workshops mentioned below. As the seats are limited, registration will be on first come first serve basis

Code Workshop

- W1 X-ray Absorption Spectroscopy for the Crystallographer (100 seats)
- W3 Rigaku Oxford Diffraction: CrysAlisPro and Olex2 Workshop (100 seats)
- W4 CSD Workshop: Communication, Education and Research (40 seats)
- W5 COMCIFS Dictionary Writing Workshop (60 seats)
- W6 Nanomegas Electron Diffraction Workshop (100 seats)

Parallel Program

Mega Structure Build, Monday, 21 August, 09:00-17:00 – Monday, 28 August, 09:00-17:00

Where: HICC main entrance

Sponsors: Department of Science and Technology, Government of India; Austrian Cultural Forum

The world's largest crystal structure model, which has been entered in the Guinness Book of Records, is being brought to Hyderabad from Vienna. Its creator, Robert Krickl, will be with us between 21 and 24 August and will help personally explain the model.

MicROCKScopica art exhibition, Tuesday, 22 August, 09:00-17:00 – Monday, 28 August, 09:00-17:00

Where: MR G.04

Organizer: IUCr Commission on Art and Cultural Heritage

Award-winning photomicrographs of rocks and crystals by Bernardo Cesare (petrologist at U. Padua, Italy) will be displayed. Cesare's photos have already been shown in the IYCr2014 calendar and have been exhibited in Italy, France, Germany, Hungary, Poland, Spain, Switzerland, UK and USA. Some examples are available at <http://microrockscopica.altervista.org/en/>

Rigaku XtaLab, Tuesday, 22 August, 09:00-17:00 – Monday, 28 August, 09:00-17:00

Where: Organizer Suite 2

Tutors and operators: Rigaku technical staff

A real X-ray diffraction lab will be in operation for participants to collect their own data. The Rigaku XtaLab will be equipped with benchtop single-crystal (XtaLAB mini II) and powder (MiniFlex) X-ray diffractometers. Participants will then have the opportunity - with IUCr Journal editors on hand - to publish their results in an IUCr publication during the Congress. Why not bring your own crystal and take away a published article?!

Salt of the Earth, Tuesday, 22 August, 10:30-13:00

Where: MR G.02-G.03

Chair: Gautam R. Desiraju

Speakers: Robert Krickl (Vienna), Dr Harshvardhan (Hon'ble Minister, S&T, Govt. of India), Mike Glazer (Oxford), Artem Oganov (Skoltech and SUNY), Amitava Das (CSMCRI).

150 minute session on various aspects of this unique compound, sodium chloride, NaCl, common salt, that is so important in crystallography and also elsewhere. The motivation for this special session is the giant NaCl crystal structure model, the largest such model for any crystal structure, which has come to IUCr2017 from Austria. This model has made it to the Guinness Book of Records.

The model will be inaugurated at 1015 hours by Dr Harshvardhan, Hon'ble Minister, S&T, Govt. of India.

Academia/Industry/Government Collaborations in Solid State Pharma, Tuesday, 22 August, 15:00-17:30

Where: MR G.02-G.03

Chair: Girish Sahni, Director-General, CSIR India

Speakers: Gautam R. Desiraju (IISc), Stephen R. Byrn (Purdue), Girish Sahni (CSIR), Rakesh K. Khandal (India Glycols), A. Venkateswarlu (DRILS)

This 150-minute session will highlight academia/industry/government interactions in the area of solid state pharma and novel crystal forms for innovator and generic companies.

Towards a global community: the IUCr Associates Programme, Wednesday, 23 August, 15:00-15:30; Thursday, 24 August, 15:00-15:30; Friday, 25 August, 15:00-15:30

Where: MR G.01

Chair: Jonathan Agbenyega (IUCr)

The IUCr Associates Programme will launch officially during the 2017 IUCr Congress and General Assembly. By joining the Associates Programme you can be a part of the IUCr. The IUCr is involved in many charitable activities including supporting students to attend meetings internationally, a Visiting Professor scheme and building crystallography capacity around the world. To learn more about the Associates Programme and our other activities please join this session.



Kick-off meeting of LAAMP, an IUPAP-IUCr Project within the ICSU 2016-2019 Grants Programme,
Wednesday, 23 August, 10:30-13:00
Where: MR G.02-G.03

Chairs: Michele Zema (IUCr), Sandro Scandolo (IUPAP)

Speakers: Sandro Scandolo (IUPAP; UNESCO-ICTP; LAAMP Executive Committee); Michele Zema (IUCr; U. Pavia; LAAMP Executive Committee); Andrea Lausi (ELETTRA; lightsources.org; LAAMP Brochure Committee); Daniel Nyanganyura (ICSU-ROA); Jean-Paul Ngome Abiaga (UNESCO-IBSP); Gihan Kamel (SESAME); others to be confirmed.

The project "Utilisation of Light Source and Crystallographic Sciences to Facilitate the Enhancement of Knowledge and Improve the Economic and Social Conditions in Targeted Regions of the World" (abbreviated into Lightsources for Africa, the Americas and the Middle East Project, LAAMP), will enhance advanced light source and crystallographic sciences in three global regions by developing regional plans to grow and enhance understanding of light source techniques and crystallography in these regions.

Symmetry in Indian Art, Wednesday, 23 August, 15:30-17:30
Where: MR G.02-G.03

Chair: Jean Marc Castera

Speaker: Poosapati Parameshwar Raju

Renowned Indian artist Poosapati Parameshwar Raju will present a seminar on "The Mechanism of Splendour", demonstrating the area of dynamic approach to the grid and its manifestation in visualising a narrative, with examples in design and temple architecture.

Crystallography in emerging nations: projects for a sustainable development of education and research infrastructure in Africa, Thursday, 24 August, 10:30-13:00
Where: MR G.02-G.03

Chair: Michele Zema (IUCr), Claude Lecomte (U. Lorraine, Nancy)

Speakers and Panelists: Claude Lecomte (Chair of the IUCr Crystallography in Africa initiative), Jean-Paul Ngome Abiaga (UNESCO-IBSP), Sandro Scandolo (UNESCO-ICTP), Daniel Nyanganyura (ICSU-ROA), Andreas Roodt (Chair of the Steering Committee for the African Crystallographic Association), others to be confirmed.

This session will present projects and activities for a sustainable development of education and research infrastructures in Africa. It will highlight possible synergies among scientific unions and other bodies, like UNESCO and ICSU, to facilitate this process.

Crystallography in emerging nations: the Latin American Crystallographic Association (LACA), Friday, 25 August, 15:30-17:30
Where: MR G.02-G.03

Chairs: Diego Lamas (Argentina, President of LACA), José Reyes Gasga (Mexico, Vice President of LACA)

Speakers: Marcia Fantini (Brazil), José Reyes Gasga (Mexico), Mauricio Fuentealba (Chile), Leopoldo Suescun (Uruguay), Andrea Araya (Costa Rica), Sebastián Klinker, Adriana Serquis (Argentina), Graciela Diaz de Delgado, Miguel Delgado (Venezuela), others to be confirmed.

The Latin American Crystallographic Association (LACA), founded in October 2013, was recognized as a Regional Association of the IUCr during the 22nd IUCr Congress and General Assembly held in Montreal, Canada, in August 2014. At present, seven countries are full members of LACA: Argentina, Brazil, Mexico, Chile, Costa Rica, Uruguay and Venezuela. However, other countries already have active research groups in Crystallography and will probably organize national associations soon. In this context, the aim of this session is to analyze the present situation of Crystallography in Latin America and to discuss future actions to promote the growth of Crystallography in the region and the strengthening of the LACA.

Crystallography in emerging nations: the role for development in the BRICS countries, Saturday, 26 August, 15:00-17:30
Where: MR G.02-G.03

Chair: Andreas Roodt (South Africa), Jean-Paul Ngome Abiaga (UNESCO)

Speakers: Marcia Fantini (Brazil), Mikhail Kovalchuk, A.F. Blagov (Russia), Ashwini Nangia (India), X.-D. Su (China), Susan Bourne (South Africa), others to be confirmed

This session will present general activities from selected groups in the five BRICS countries (Brazil, India, Russia, China and South Africa) and will discuss initiatives on networking. It will also aim to increase collaboration and stimulate mutual discussions also among young colleagues, as well as funding opportunities available.

Commemorative symposium in honour of Howard Flack, Friday, 25 August, 10:30-13:00
Where: MR G.01

Chairs: Bill Clegg (U. Newcastle, UK), Gervais Chapuis (EPFL, Switzerland)

Speakers: A. Mike Glazer (U. Oxford), Brian McMahon (IUCr), others to be confirmed

Dragons' Den, Thursday, 24 August, 15:30-17:30; 2nd session on Saturday, 26 August, 10:30-13:00 (if needed)
Where: MR G.01

Dragons (selection panel): Ashwini Nangia, Massimo Nespolo, Amit Sharma, Keith Moffat, Christian Lehmann

Sponsors: IUCr2017, STOE, Elsevier, Springer

Young researchers with maximum age of 35 and no permanent academic position, regularly registered for participation in IUCr2017, will present and defend their idea for a scientific project in front of the panel. Decision on what projects are funded is taken immediately at the end of all presentations. Awardees receive a grant of INR 1,50,000.

To enter the contest, eligible researchers must submit a synopsis of their research project (max. 3000 characters) no later than 15 July 2017 at this page: <http://dragonsden.iucr2017.org/myaccount/login>

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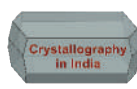


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