Asian Charge Density Workshop

Analysis of Experimental and Theoretical Electron Densities:

Extracting Properties from a Multipole Refinement

February 23-26, 2015

Indian Institute of Science, Bangalore, Karnataka INDIA

Scientific and Social Program



Sponsors

















Sunday February 22nd

14:00 – 16:30	Arrival & Registration at Solid State and Structural Chemistry, IISc
19:00 – 21:00	Welcoming Reception by RSC – CVH Dining Hall

Monday, February 23rd *The Multipole Model & Refinement*

09:00-12:30	Morning session: Chair - Claude Lecomte
09:00-09:10	Opening remarks
09:10-09:55	L1 – Philip Coppens "A Birds Eye Introduction to X-ray Charge Density
	Analysis and Some Recent Developments"
09:55-10:20	Tea/coffee break
10:20:11:05	L2 – Piero Macchi "General Aspects of Multipole Modelling"
11:05-11:35	L3 - Jacob Overgaard "Importance of Modelling H-Atoms"
11:35-12:00	Introduction and preparation for hands on sessions (P. Macchi/C. Jelsch)
12:00-14:00	Lunch & Poster session
14:00-18:30	Afternoon session: Hands on Workshop
14:00-16:00	Hands-on Session #1 (Introduction – P. Macchi/C. Jelsch)
16:00-16:30	Tea/coffee break
16:30-18:30	Hands-on Session #1 (continued)
19:30	Conference Banquet at Main Guest House Lawns

Tuesday, February 24th Chemistry from Electron Densities

09:00-12:30	Morning session: Chair –Wolfgang Scherer
09:00-09:45	L4 – Dietmar Stalke "Only good data can challenge chemical concepts"
09:45-10:15	L5 - T.N. Guru Row " σ - and π -holes from Charge Densities: Relevance to
	Chemistry"
10:15-10:45	Tea/coffee break
10:45:11:15	L6 – Gautam Desiraju "Charge Densities in Crystal Engineering"
11:15-11:45	L7 – Pierre Becker "Important aspects concerning joint refinement of
	charge/spin electron densities or charge/momentum densities"
12:00-14:00	Lunch & Poster session

14:00-18:30	Afternoon session: Hands on Workshop
14:00-16:00	Hands-on Session #2 (P. Macchi/C. Jelsch)
16:00-16:30	Tea/coffee break
16:30-18:30	Hands-on Session #2 (continued)
19:30	Dinner – CVH Dining Hall

Wednesday, February 25th

9:00-19:30 Day trip to Jain Shrine Shravanabelagola , Hoysala Temples at Belur and Halebid

Thursday, February 26thAdvanced Techniques

09:00-12:30	Morning session: Chair –Jacob Overgaard
09:00-09:45	L8 – Claude Lecomte "X , n polarized neutron joint refinement
	Applications to organic radicals and molecular magnets."
09:45-10:30	L9 - Wolfgang Scherer "Chemical Bonding in Solid State Compounds"
10:30-11:00	Tea/coffee break
11:00-13:00	Hands-on Session #3 (P. Macchi/C. Jelsch)
13:00-14:00	Lunch
14:00-16:30	Afternoon session: Chairs – Pierre Becker
14:00-14:15	L10 – Dylan Jayatilaka " X-ray wavefunction refinement - Introduction",
14:15-14:30	L11 - Simon Grabowsky "X-ray wavefunction refinement - Application"
14:30-16:30	Hands-on Session #4 (Dylan Jayatilaka & Simon Grabowsky)
16:30	Concluding remarks