

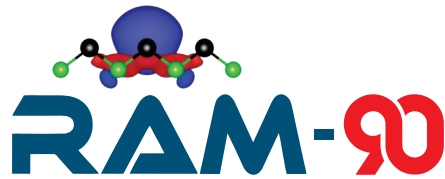
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Jawaharlal Nehru Centre
for Advanced Scientific Research

School of Advanced Materials (SAMat)



JNCASR



International Conference on
Recent Advances in Materials

PROGRAM

December 07-09, 2023

Auditorium

JNCASR, Jakkur, Bengaluru 560064

Thursday, December 07, 2023

09:30 - 09:45	Inaugural Session
SESSION 1	Chair: S M Shivaprasad
09:45 - 10:15	A K Cheetham , <i>UC Santa Barbara and NUS, Singapore</i> <i>Hybrid Perovskite Formates: From Multiferroics to Carbon Capture</i>
10:15 - 10:45	Chennupati Jagadish , <i>Australian National University</i> <i>Semiconductor Nanostructures for Optoelectronics Applications</i>
10:45 - 11:15	D D Sarma , <i>IISc</i> <i>Chiral Ferroelectrics with Tunable Bandgaps</i>
11:15 - 11:45	Tea/Coffee
SESSION 2	Chair: Suresh Das
11:45 - 12:15	Prashant V Kamat , <i>University of Notre Dame</i> <i>Directing Energy and Electron Transfer Processes in Semiconductor - Molecular Hybrids</i>
12:15 - 12:45	K George Thomas , <i>IISER Thiruvananthapuram</i> <i>Single-particle and Ensemble Photoluminescence of Quantum Emitter(s) in Plasmonic Field</i>
12:45 - 13:15	Serena Cussen , <i>University of Sheffield</i> <i>Fine-tuning Synthesis to Optimize Energy Storage: Insights from Advanced Characterization</i>
13:15 - 14:00	Lunch
SESSION 3	Chair: Swapan K Pati
14:00 - 14:30	R Murugavel , <i>IIT Bombay</i> <i>Molecular and Framework Metal Phosphates for Applications in Energy, Catalysis, and Magnetism</i>
14:30 - 15:00	Kanishka Biswas , <i>JNCASR</i> <i>Antibonding Electronic States: Not Always a Devil</i>
15:00 - 15:30	H S S Ramakrishna Matte , <i>CeNS</i> <i>Solution Processing of Low-dimensional Materials and Applications</i>
15:30 - 16:00	Sponsors
16:00 - 17:30	Coffee/Tea + Posters (Venue: SSL Foyer)
17:30 - 19:00	Cultural programme

Friday, December 08, 2023

SESSION 4 Chair: K N Ganesh

09:30 - 10:00

A K Sood, *IISc*
Probing Ultrafast Dynamics in Quantum Materials

10:00 - 10:30

Tea/Coffee

SESSION 5 Chair: A K Cheetham

10:30 - 12:00

Felicitation

12:30 - 14:00

Lunch

SESSION 6 Chair: Chandrabhas Narayana

14:00 - 14:30

J Paul Attfield, *University of Edinburgh*
New Materials from High Pressure

14:30 - 15:00

Bettina V Lotsch, *Max Planck Institute*
Covalent Organic Frameworks for Solar Energy Conversion: From Design to Function

15:00 - 15:30

Judith MacManus-Driscoll, *University of Cambridge*
Devices from Oxides

15:30 - 16:00

S M Yusuf, *BARC*
Quantum Entanglement in Spin Systems and its Technological Relevance

16:00 - 16:30

Tea/Coffee

SESSION 7 Chair: Srikanth Sastry

16:30 - 17:00

Brendan Kennedy, *University of Sydney*
Balancing Cooperativity and Disorder in Functional Materials

17:00 - 17:30

A K Tyagi, *BARC*
Conventional Mixed Oxides for a Contemporary Problem: Catalytic Mineralization of Dioxin and Furan

Saturday, December 09, 2023

SESSION 8 Chair: Satish S Patil

09:30 - 10:00

M L Klein, *Temple University*
Computational Studies of Knots In Polymers

10:00 - 10:30

Tanusri Saha-Dasgupta, *S N Bose*
Pressure-tuned Valence Transition, Insulator-metal Transition in van der Waals Antiferromagnet CrPS₃

10:30 - 11:00

A K Ganguli, *IISER, Berhampur*
Superconductivity and Magnetism in Metal Chalcogenides

11:00 - 11:30

Tea/Coffee

SESSION 9 Chair: Ritu Gupta

11:30 - 12:00

U Ramamurthy, *NTU, Singapore*
Microstructural Design of Alloys Using 3D Printing

12:00 - 12:30

Radha Boya, *University of Manchester*
Angstrom-scale Confinement: Ionic Flows

12:30 - 13:00

Suresh Bhargava, *RMIT*
The Midas Touch: Molecular Engineering of Gold for Cancer Treatment

13:00 - 14:00

Lunch

SESSION 10 Chair: Ujjal K Gautam

14:00 - 14:30

Arindam Ghosh, *IISc*
Flow of Charge and Heat in Ultra-clean Grapheme

14:30 - 15:00

Shobhana Narasimhan, *JNCASR*
At Cross Purposes: Spin-Crossover Systems on Metal Substrates

15:00 - 15:30

Vinayak P Dravid, *Northwestern University*
From Atomic -Resolution In-Situ Catalysis to AI-enabled Materials Discovery: The Emerging Renaissance Era in Electron Microscopy

15:30

Concluding Session and Tea

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09:45 - 10:15	A K Cheetham	10:00 - 10:30	Coffee/Tea	10:00 - 10:30	Tanusri Saha- Dasgupta
10:15 - 10:45	Chennupati Jagadish	10:30 - 12:00	Felicitation	10:30 - 11:00	A K Ganguli
10:45 - 11:15	D D Sarma	12:30 - 14:00	Lunch Break	11:00 - 11:30	Tea/Coffee
11:15 - 11:45	Tea/Coffee	14:00 - 14:30	J Paul Attfield	11:30 - 12:00	U Ramamurty
11:45 - 12:15	Prashant V Kamat	14:30 - 15:00	Bettina V Lotsch	12:00 - 12:30	Radha Boya
12:15 - 12:45	K George Thomas	15:00 - 15:30	Judith Driscoll	12:30 - 13:00	Suresh Bhargava
12:45 - 13:15	Serena Cussen	15:30 - 16:00	S M Yusuf	13:00 - 14:00	Lunch Break
13:15 - 14:00	Lunch Break	16:00 - 16:30	Coffee/Tea	14:00 - 14:30	Arindam Ghosh
14:00 - 14:30	R Murugavel	16:30 - 17:00	Brendan Kennedy	14:30 - 15:00	Shobhana N
14:30 - 15:00	Kanishka Biswas	17:00 - 17:30	A K Tyagi	15:00 - 15:30	Vinayak P Dravid
15:00 - 15:30	H S S Ramakrishna Matte			15:30	Concluding session and Tea
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