

## Programme Schedule

<b>Day 1 (12<sup>th</sup> June, 2019)</b>		
08:00am – 09:00am	Reception / Registration	
09:00am – 09:30am	Inaugural Session	
09:30am – 10:30am	Plenary talk and panel discussions	<p><b>Dr Peter Knoll</b> <i>(Professor, Institute of Experimental Physics, University of Graz, Vienna, Austria)</i></p> <p style="text-align: center;"><b>Title of Talk</b></p> <p style="text-align: center;"><b>Material Sciences: Basic Research Meets Application</b></p> <p style="text-align: center;"><b>Session Chair: Dr. Nandakumar Kalarickal</b> <i>(Director, International and Inter University Center for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India)</i></p>
10:30am – 10:45am	Coffee/Tea break	
10:45am – 11:15am	<p style="text-align: center;">Invited Talk</p> <p style="text-align: center;"><b>Dr S. S. Bhattacharya</b> <i>(Professor, Department of Metallurgical and Materials, Indian Institute of Technology, Madras, India)</i></p> <p style="text-align: center;"><b>Title of Talk</b></p> <p style="text-align: center;"><b>Phase-pure Multicomponent Equimolar Oxides: A Novel Class of Functional Materials</b></p> <p style="text-align: center;"><b>Session Chair: Dr N Lakshmi</b> <i>(Professor, Department of Physics, Mohanlal Sukhadia University Udaipur, Rajasthan, India)</i></p>	



11:15am – 11:45am	<p style="text-align: center;">Invited Talk</p> <p style="text-align: center;"><b>Dr. Nandakumar Kalarickal</b></p> <p style="text-align: center;"><i>(Director, International and Inter University Center for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India)</i></p> <p style="text-align: center;">Title of Talk</p> <p style="text-align: center;"><b><i>Engineered Novel Nanostructured Materials for Tailored Applications</i></b></p> <p style="text-align: center;"><b>Session Chair: Dr Peter Knoll</b></p> <p style="text-align: center;"><i>(Professor, Institute of Experimental Physics, University of Graz, Vienna, Austria)</i></p>			
11:45am- 1:15pm	<b>Oral Presentations</b>	<b>Oral Presentations</b>	<b>Oral Presentations</b>	<b>Oral Presentations</b>
	Venue 1 8 Presentations ( 10 Minutes each)	Venue 2 7 Presentations ( 10 Minutes each)	Venue 3 9 Presentations ( 10 Minutes each)	Venue 4 8 Presentations ( 10 Minutes each)
1:15pm – 02:00pm	Lunch Break			

<b>Day 1 (12<sup>th</sup> June, 2019)</b>	
02:00pm – 02:30pm	<p style="text-align: center;">Invited Talk</p> <p style="text-align: center;"><b>Dr N Lakshmi</b></p> <p style="text-align: center;"><i>(Professor, Department of Physics, Mohanlal Sukhadia University Udaipur, Rajasthan, India)</i></p> <p style="text-align: center;">Title of Talk</p> <p style="text-align: center;"><b><i>Use of Mössbauer Spectroscopy in Nanomagnetism</i></b></p> <p style="text-align: center;"><b>Session Chair: Dr Fasquelle Didier</b></p> <p style="text-align: center;"><i>(Professor, University of Littoral Cote d'Opale, France)</i></p>
02:30pm –	Invited Talk



03:00pm	<p style="text-align: center;"><b>Dr Klaus Friedel Ortega</b> <i>(Research Scientist, University of Duisburg-Essen, Essen, Germany)</i></p> <p style="text-align: center;"><b>Title of Talk</b> <i>Topotactic synthesis of cobalt-iron spinel catalysts with defined mesostructures derived from co-precipitated layered double hydroxides</i></p> <p style="text-align: center;"><b>Session Chair: Dr. Nygil Thomas</b> <i>(Department of Chemistry, Nirmalagiri College)</i></p>
03.00pm – 03.30pm	<p style="text-align: center;">Invited Talk</p> <p style="text-align: center;"><b>Dr Fasquelle Didier</b> <i>(Professor, University of Littoral Cote d’Opale, France)</i></p> <p style="text-align: center;"><b>Title of Talk</b> <i>Lead-free functional films and ceramics for electricity storage and electro-caloric devices</i></p> <p style="text-align: center;"><b>Session Chair: Dr S. S. Bhattacharya</b> <i>(Professor, Department of Metallurgical and Materials, Indian Institute of Technology, Madras, India)</i></p>
03:30pm – 03:45pm	Coffee/Tea break
03:45pm- 05:15pm	<b>Poster Sessions</b> <b>Venue 5</b>
05:15pm – 05.30pm	Concluding session/Instructions

<b>Day 2 (13<sup>th</sup> June, 2019)</b>				
09:30am – 10:30am	Plenary talk and panel discussions	<p style="text-align: center;"><b>Dr Pulickel M Ajayan</b> <i>(Benjamin M. and Mary Greenwood Anderson Professor in Engineering, Rice University, USA)</i> <b>Title of Talk</b></p> <p style="text-align: center;"><b>Session Chair: Dr Radhakrishna Prabhu</b> <i>(Reader in School of Engineering &amp; Lead for the Centre for Research in Energy and the Environment (CREE), Robert Gordon University, Aberdeen, UK)</i></p>		
10:30am – 10:45am	Coffee/Tea break			
10:45am – 11:15am	<p style="text-align: center;">Invited Talk <b>Dr Tanmay Basak</b> <i>(Professor, Department of Chemical Engineering, Indian Institute of Technology, Madras, India)</i> <b>Title of Talk</b></p> <p style="text-align: center;"><b>Microwave Material Processing: Energy Efficient Approach</b></p> <p style="text-align: center;"><b>Session Chair: Dr I Nan Lin</b> <i>(Retired Professor, Department of Physics, Tamkang University, Taiwan)</i></p>			
11.15am – 11.45am	<p style="text-align: center;">Invited Talk <b>Dr T N Narayanan</b> <i>(Assistant Professor, Tata Institute of Fundamental Research, Hyderabad, India)</i> <b>Title of Talk</b></p> <p style="text-align: center;"><b>Molecular Junctions: From Catalysis to Electronics</b></p> <p style="text-align: center;"><b>Session Chair: Dr M M Shaijumon</b> <i>(Associate Professor, Indian Institute of Science Education &amp; Research (IISER) Thiruvananthapuram, Thiruvananthapuram, India)</i></p>			
11:45am- 1:00pm	<b>Oral Presentations</b> Venue 1 7 Presentations ( 10 Minutes each)	<b>Oral Presentations</b> Venue 2 9 Presentations ( 10 Minutes each)	<b>Oral Presentations</b> Venue 3 9 Presentations ( 10 Minutes each)	<b>Oral Presentations</b> Venue 4 8 Presentations ( 10 Minutes each)



1:00pm – 01:45pm	Lunch Break	
01:45pm – 02:30pm	Plenary talk and panel discussions	<p><b>Dr I Nan Lin</b> <i>(Retired Professor, Department of Physics, Tamkang University, Taiwan)</i></p> <p style="color: red;">Title of Talk</p> <p><b><i>Diamond Films as Advance Materials: The Science and Technology</i></b></p> <p style="color: blue;"><b>Session Chair: Dr Pulickel M Ajayan</b> <i>(Benjamin M. and Mary Greenwood Anderson Professor in Engineering, Rice University, USA)</i></p>

## Day 2 (13<sup>th</sup> June, 2019)

02:30pm – 03:00pm	<p>Invited Talk</p> <p><b>Hitoshi Watarai</b> <i>(Professor, Institute for NanoScience Design, Osaka University, Japan )</i></p> <p style="color: red;">Title of Talk</p> <p><b><i>Magnetic Linear Dichroism for the Detection of Agglomeration of Magnetic Nanoparticles in Solution</i></b></p> <p style="color: blue;"><b>Session Chair: Dr Tanmay Basak</b> <i>(Professor, Department of Chemical Engineering, Indian Institute of Technology, Madras, India)</i></p>
03:00pm – 03.30pm	<p>Invited Talk</p> <p><b>Dr Pol Vilas</b> <i>(Associate Professor at Purdue University's School of Chemical Engineering, USA)</i></p> <p style="color: red;">Title of Talk</p> <p><b><i>Materials by Design: Tailored Morphology and Structures of Carbon Anodes for Enhanced Battery Safety</i></b></p> <p style="color: blue;"><b>Session Chair: Hitoshi Watarai</b> <i>(Professor, Institute for NanoScience Design, Osaka University, Japan )</i></p>

03:30pm – 03:45pm	Coffee
03:45pm- 04:15pm	<p>Invited Talk (Venue 1)</p> <p><b>Dr Swapna S Nair</b> <i>(Associate Professor, Central University of Kerala, Kasargode, Kerala, India)</i></p> <p><b>Title of Talk</b> <i>Lead-Free Magnetoelectric Heterostructures Based on Nanoscale Niobates for Micro/Nano Electronic and Energy Harvester Applications; Are the material parameters only matters? Or the connectivity too?</i></p> <p><b>Session Chair: Dr Vilas Shelke</b> <i>(Senior Scientific Officer II, Department of Physics, Barkatullah University, Bhopal, INDIA)</i></p>
	<p>Invited Talk (Venue 2)</p> <p><b>Vinod Erkkara Madhavan</b> <i>(Scientist, Qatar Environment and Energy Research Institute QEERI, Doha, Qatar)</i></p> <p><b>Title of Talk</b> <i>Perovskite based stable solar cells</i></p> <p><b>Session Chair: Dr Preetha K.C.</b> <i>(Associate Professor, SN College, Kannur)</i></p>
04.15pm – 04.45pm	<p>Invited Talk (Venue 1)</p> <p><b>Dr M M Shaijumon</b> <i>(Associate Professor, Indian Institute of Science Education &amp; Research (IISER) Thiruvananthapuram, Thiruvananthapuram, India)</i></p> <p><b>Title of Talk</b> <i>2-Dimensional Nanomaterials for Electrocatalytic Applications</i></p> <p><b>Session Chair: Dr Pol Vilas</b> <i>(Associate Professor at Purdue University's School of Chemical Engineering, USA)</i></p>
<b>Day 2 (13<sup>th</sup> June, 2019)</b>	
04.15pm – 04.45pm	<p>Invited Talk (Venue 2)</p> <p><b>Annapureddy V</b> <i>(Assistant Professor, National Institute of Technology, Thiruchirappalli, Tamil Nadu, India)</i></p>



# INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS -ICAM2019

12<sup>th</sup> -14<sup>th</sup> June 2019, Nirmalagiri College, Kannur, Kerala, India



	<p style="text-align: center;"><b>Title of Talk</b></p> <p style="text-align: center;"><b>Session Chair: Dr Manjusha Shelke</b> <i>(Senior Scientist, Physical and Materials Chemistry Department, National Chemical Laboratory Pune, INDIA)</i></p>
04.45pm – 06.15pm	<b>Poster Session</b>
06.15 pm – 07.15 pm	<b>Cultural Programmes</b>
07.30pm	<b>Conference Dinner</b>

<b>Day 3 (14<sup>th</sup> June, 2019)</b>		
09:30am – 10:15am	Plenary talk and panel discussions	<p><b>Dr R K Pandey</b> <i>(Amity Univerity, Raipur)</i></p> <p style="color: red;">Title of Talk</p> <p><b>Novel Nanostructures for New Materials Design</b></p> <p style="color: blue;">Session Chair: Dr. Reji Philip Professor, Raman Research Institute, Bangalore</p>
10:15am – 10:40am	<p>Invited Talk</p> <p><b>Dr Radhakrishna Prabhu</b> <i>(Reader in School of Engineering &amp; Lead for the Centre for Research in Energy and the Environment (CREE), Robert Gordon University, Aberdeen, UK)</i></p> <p style="color: red;">Title of Talk</p> <p><b><i>Optical sensors and sensory materials for applications in Medical to Environmental monitoring</i></b></p> <p style="color: blue;">Session Chair: Vinod Erkkara Madhavan <i>(Scientist, Qatar Environment and Energy Research Institute QEERI, Doha, Qatar)</i></p>	
10:40am – 11:00am	Coffee/Tea break	
11:00am – 11:25am	<p>Invited Talk</p> <p><b>Dr Nandhanan Erathodiyil</b> <i>(Principal Research Scientist and Project Leader NanoBioLab, Biomedical Sciences Institutes Agency for Science, Technology and Research, Singapore)</i></p> <p style="color: red;">Title of Talk</p> <p><b><i>Chemically Defined Polymeric Nanostructured Materials for Cell Culture Substrates and Anti-Bio-Fouling Applications</i></b></p> <p style="color: blue;">Session Chair: Dr Klaus Friedel Ortega <i>(Research Scientist, University of Duisburg-Essen, Essen, Germany)</i></p>	
11.25am –	Invited Talk	



11.50am	<p align="center"><b>Dr Ramesh G Mani</b> (Professor, Department of Physics &amp; Astronomy, Georgia State University, Atlanta, USA)</p> <p align="center">Title of Talk <b>Resistively detected spin resonance and the spin-orbit interaction gap in graphene</b></p> <p align="center">Session Chair: <b>Dr Nandhanan Erathodiyil</b> (Principal Research Scientist and Project Leader NanoBioLab, Biomedical Sciences Institutes Agency for Science, Technology and Research, Singapore)</p>			
11:50 am- 01:00 pm	<b>Oral Presentations</b> Venue 1 11 Presentations ( 10 Minutes each)	<b>Oral Presentations</b> Venue 2 9 Presentations ( 10 Minutes each)	<b>Oral Presentations</b> Venue 3 14 Presentations ( 10 Minutes each)	<b>Oral Presentations</b> Venue 4 6 Presentations ( 10 Minutes each)
01:00pm – 01:45pm	Lunch Break			
<b>Day 3 (14<sup>th</sup> June, 2019)</b>				
01:45pm – 02:30pm	Plenary talk and panel discussions	<p align="center"><b>Dr Reji Philip</b> ( Professor, Raman Research Institute, Bangalore)</p> <p align="center">Title of Talk <b>Optical Power Limiting: Materials and Methods</b></p> <p align="center">Session Chair: <b>Dr. R K Pandey</b> Vice Chancellor, Amity University, Raipur</p>		
02:30pm – 03:00pm	<p align="center">Invited Talk (Venue 1) <b>Dr Manjusha Shelke</b> (Senior Scientist, Physical and Materials Chemistry Department, National Chemical Laboratory Pune, INDIA)</p> <p align="center">Title of Talk <b>Chemistry of electrode materials for Li-ion batteries</b></p> <p align="center">Session Chair: <b>Dr. Joji Kurian</b></p>			

	<i>(Department of Physics, Nirmalagiri College)</i>
	<p>Invited Talk (Venue 2)</p> <p><b>Dr Vilas Shelke</b></p> <p><i>(Senior Scientific Officer II, Department of Physics, Barkatullah University, Bhopal, INDIA)</i></p> <p><b>Title of Talk</b></p> <p><b><i>Electromagnetic Interference (EMI) shielding using oxide nanomaterials</i></b></p> <p><i>Session Chair: Dr. Joshy Joseph</i></p> <p><i>(Department of Physics, Nirmalagiri College)</i></p>
03:00pm – 04:30pm	<b>Poster Session (Coffee)</b>
04:30pm – 05.00pm	Concluding session/Valedictory

**Day 4 – 15<sup>th</sup> June 2019 – Sightseeing (Optional)**