

7th International Workshop on Polymer/Metal Nanocomposites

November, 2nd-5th 2015, Jaipur, INDIA

Venue: Hotel Vrisa, Jawahar Circle, Jaipur

Monday, Nov. 2 nd , 2015		
17:00-19:00	Welcome & Registration	
Tuesday, Nov. 3 rd , 2015		
09:00 – 09:20	Opening remarks – Y.K. Vijay	
Session 1	Synthesis and growth 1	Chair: F. Faupel
09:20 – 10:00	IN1	K. Makasheva , B. Despax, C. Laurent, C. Villeneuve-Faure, C. Bonafos, L. Milliere, A. Pugliara, L. Boudou and G. Teyssedre <i>Université de Toulouse; Toulouse, France</i> Plasma based processes for dielectric engineering of nanostructured layers
10:00 – 10:20	O1	T. Steinhartová , J. Hanuš, A. Choukourov, J. Kousal, O. Kylián and H. Biederman <i>Charles University in Prague, V Holešovičkách 2, Prague 8, Czech Republic</i> Plasma post-treatment of Cu/a-C:H nanocomposite films
10:20 – 10:40	O2	Y. Kumari , L. K. Jangir, T. Khandelwal, M. Kumar and K. Awasthi <i>Malaviya National Institute of Technology, Jaipur, India</i> PS-P4VP block copolymer based nanostructured thin films
10:40 – 11:10	Coffee break	
Session 2	Synthesis and growth 2	Chair: J. Hanuš
11:10 – 11:50	IN2	I. Pilch <i>Thin Film Physics Division, IFM-Material Science, Linköping University, SE-581 83, Linköping, Sweden</i> On the Growth of Nanoparticles in Sputter Sources
11:50 – 12:10	O3	O. Polonskyi, A. M. Ahadi, T. Strunskus and F. Faupel <i>Christian-Albrechts University at Kiel, Germany</i> The effect of different gas admixtures on nanoparticles formation in a gas aggregation source and their treatment by hollow cathode plasma
12:10 – 12:30	O4	U. Divya Madhuri , V. Kesava Rao and T. P. Radhakrishnan <i>University of Hyderabad, Hyderabad-500046, India</i> Fabrication of Platinum and Gold Nanoparticles embedded Poly(Vinyl Alcohol) thin films and their use as Dip Catalysts
12:30 – 14:00	Lunch	

Session 3		Synthesis and growth 3	Chair: D.K. Avasthi
14:00 – 14:40	IN3	N. L. Singh <i>Department of Physics, The M. S. University of Baroda, Vadodara- India</i> Effect of Swift Heavy Ion Irradiation on Physical Properties of Metal Nanoparticles-Embedded Polymer Nanocomposites	
14:40 – 15:00	O5	V. K. Rao and T. P. Radhakrishnan <i>University of Hyderabad, Hyderabad-500046, India</i> Bimetallic nanoparticles Embedded Polymer Thin Films: Efficient Catalysts and Tunable SERS Substrates	
15:00 – 15:20	O6	R. Singh , R. K. Rathore, T. Singh, P. Kaler, M. D. Anoop, S Tanwar, A. S. Verma, V. K. Saraswat, K. Awasthi and M. Kumar <i>Malaviya National Institute of Technology, Jaipur, India</i> Optical and Structural studies of Bismuth Telluride (Bi ₂ Te ₃) PMMA and PS Nanocomposites	
15:20 – 15:50	Coffee break		
Session 4		Membranes and ion transport	Chair: P. Poddar
15:50 – 16:30	IN4	M. Mizuhata , H. Okawa, H. Maki <i>Graduate School of Engineering, Kobe University, 1-1 Rokkodai-cho, Nada, Kobe, 657-8501, Japan</i> Ionic Transport Conjugated with Electron Transfer in AuNPs Modified Poly(ethyleneimine) Thin Film	
16:30 – 16:50	O7	S. A. Bedin , V. V. Korotkov, S. S. Kruglikov and D. L. Zagorskiy <i>Institute of Crystallography of RAS, Moscow, Russia</i> A Study of the Process of Electrodeposition of Some Metals into Nanosize Pores of Track Membranes	
16:50 – 17:10	O8	Y.K.Vijay <i>Vivekananda Global University, Jaipur 303012, India</i> Polymer Composite Membrane as active optical device	
17:10 – 17:30	O9	I. Eremchev , A. Gorshelev, Y. Sobolev, S. Orlov, A. Naumov, D. Zagorskiy, S. Bedin, V. Berezkin and A. Vilenskiy <i>Institute of Spectroscopy of RAS, Moscow, Russia</i> Track membranes nanodiagnostic using single molecules spectromicroscopy	
18:00 – 20:00	Visit to Musical Fountains/ World Trade Park		

Wednesday, Nov. 4th, 2015

Session 5		Optical properties 1	Chair: Y. K. Vijay
09:00 – 09:40	IN5	<p>S. Koyiloth Vayalil, A. Gupta, G. Santoro, P. Zhang and S. V. Roth <i>Photon Science, Deutsches Elektronen-Synchrotron, Notkestrasse-85, Hamburg, Germany</i></p> <p>Growth of magnetic alloy nanowires on nanorippled Si substrates: An in-situ μGISAXS investigation</p>	
09:40 – 10:00	O10	<p>A. Sharma and Meena <i>Department of Physics, Kurukshetra University, Kurukshetra 136119, India</i></p> <p>Ag nanoparticle induced modification in structural and optical properties of starch</p>	
10:00 – 10:20	O11	<p>A. Bhargava and B. Suthar <i>Govt. Dungar College, Bikaner-334001, India</i></p> <p>Optical Properties of Metal-Polymer Photonic Nanocomposite Materials</p>	
10:20 – 10:40	O12	<p>Lokesh Kr Jangir, Yogita Kumari, Anil Kumar, Manoj Kumar K. Awasthi <i>Malaviya National Institute of Technology, Jaipur, India</i></p> <p>Optical properties of rare earth doped ZnO–PS nanocomposites</p>	
10:40 – 11:10	Coffee break		
Session 6		Optical properties 2	Chair: K. Makasheva
11:10 – 11:50	IN6	<p>F. Faupel, V. Schneider, M. K. Hedayati, T. Strunskus and M. Elbahri <i>Christian-Albrechts University at Kiel, Germany</i></p> <p>Light-induced switching of electrical and optical properties based on chromophore blended polymer nanocomposites</p>	
11:50 – 12:10	O13	<p>V. Sharma and K. Sachdev <i>Malaviya National Institute of Technology, Jaipur, India</i></p> <p>Polymer Based DMD Structure for Opto-electronic Applications</p>	
12:10 – 12:30	O14	<p>J. Kumar, M. Menzel, N. Teuscher and A. Heilmann <i>Fraunhofer Institute for Mechanics of Materials IWM Halle, Walter-Hülse-Straße 1, 06120 Halle (Saale), Germany</i></p> <p>Morphological and optical properties of silver and gold nanoparticles deposited on various polymer materials</p>	
12:30 – 14:00	Lunch		
Session 7		Biomedical applications	Chair: Y. K. Mishra
14:00 – 14:40	IN7	<p>J. Hanuš, M. Vaidulych, O. Kylián, T. Steinhartová, J. Beranová, A. Choukourov and H. Biederman <i>Charles University, Faculty of Mathematics and Physics, V Holešovičkách 2, 180 00</i></p> <p>Gas Aggregation source as an effective tool for nanocomposite deposition</p>	
14:40 – 15:00	O15	<p>J. Pendharkar, L. Jain, V. Naik and P. More <i>K J Somaiya College of Science and Commerce, Mumbai, India</i></p> <p>Synthesis and Testing of AntiBacterial Properties of Metal Oxide nanofluids</p>	

15:00 – 15:20	O16	S. Mahendia , A. K. Tomar, R. P. Chahal and S. Kumar <i>Kurukshetra University, Kurukshetra-136119, Haryana, India</i> Cole-Cole analysis of bio-compatible nanocomposites of Poly(Vinyl Alcohol) (PVA) embedded with silver nanoparticles for electronic devices
15:20 – 15:40	O17	P. Poddar <i>Physical & Materials Chemistry Division, National Chemical Laboratory, Pune 411 008, India</i> Atom level control over fabrication of functionalized materials for theranostics applications: From phosphors to quantum clusters
15:40 – 16:40	Coffee break + Poster session	
P1	Shilpa Vijay , J.K. vijayavargiya, Y.K. Vijay <i>Govt. college, Kota, India (Rajasthan) 324001</i> Orientation study of Multi wall carbon nanotube dispersed Poly methyl methacrylate acid	
P2	Rita Singh , Durgeshwer Singh and Antaryami Singh <i>Defence Laboratory, Defence Research and Development Organization, Jodhpur, India</i> Polyvinyl Pyrrolidone/Carboxymethyl Cellulose - Nanosilver Composite Hydrogel Synthesized by Gamma Radiation for use as Wound Dressing	
P3	Balram Tripathi , G. Tripathi, KB Sharma, Y.K Vijay <i>Department of Physics, SS Jain Subodh PG college, Jaipur, India</i> PS/GO Based flexible nanocomposites for energy storage	
P4	Kamakshi , Vibhav k Saraswat, Manoj Kumar, Kamendra Awasthi <i>Department of Physics Banasthali University, Rajasthan India</i> Block copolymer (PS-P4VP) coated PET composite membranes for gas separation	
P5	Rajesh Kumar , Manoj Kumar, S. K. Sharma, Kamendra Awasthi <i>Department of Physics, Malaviya National Institute of Technology, Jaipur 302017,</i> Functionalized MWCNTs with Pd nanoparticles in Polycarbonate for gas separation	
P6	Gyanesh Soni , Subodh Srivastava, R K Khanna and Y K Vijay <i>Vivekananda Global University, Jaipur India</i> Nano SiO ₂ doped Polymethylmethacrylate (PMMA) composite flexible thin films prepared by solution casting: Synthesis, Optical and structural Properties	
P7	Subodh Srivastava , Rajesh K Gangwar, R S Rajaura, Pankaj Kalotra <i>Vivekananda Global University, Jaipur India</i> Synthesis of graphene oxide/ Polyaniline nanocomposites and their hydrogen storage property	
P8	Ajay Sharma , Vipin Kumar Jain, Subodh Srivastava, SN Dolia, YK Vijay <i>Institute of Engineering and Technology, JK Lakshmipat University, Jaipur, India</i> Study of Dielectric Behavior of CNT Doped PANI Nano composite	
P9	Manish Kr Gupta , RK Khanna, K J Rangra <i>Vivekananda Global University, Jaipur India</i> Effects of Non-ionizing EM radiations on membranes potential and nerve conduction in Human Body	
P10	Jyoti , Neha Sharma, Jyoti Parashar, V. K. Saxena, K. B. Sharma <i>Department of Physics, University of Rajasthan, Jaipur 302004, India</i> Dielectric Study of Zn _{0.2} Mg _{0.8} Fe ₂ O ₄ Nanoferrite Synthesized by Sol-Gel Wet Chemical Method	
P11	Khushboo Sharma & S.S. Sharma <i>Department of Physics, Govt. Women Engineering College, Ajmer- 305002, India</i> Effect of TiCl ₄ Treatment on TiO ₂ Photo anode Sensitized with CdSe Quantum Dot	

P12	Heena, D. Kumar¹, S. Dokwal, S. Mahendia and S. Kumar <i>Department of Physics, Kurukshetra University, Kurukshetra 136119, India</i> Microwave assisted one-pot Synthesis of Graphene decorated with metal nanoparticles and their application as Glucose Sensors	
P13	Y. C. Sharma & A. Purohit <i>Vivekananda Institute of Technology (East), Jagatpura, Jaipur, 303 012, India</i> Optical, electrical and morphological properties of antimony telluride nano thick thin films	
P14	Jitendra Pendharkar, Yogesh Ghelsasi, S K Saxena, and Pravin More. <i>K J Somaiya College of Science and Commerce, Vidyavihar, Mumbai</i> Synthesis and Electrical-Acoustic Characterizations of Metal Oxide nanofluids	
P15	Ankita Dube, Kumudkant Awasthi, Anjali Awasthi <i>Department of Zoology, University of Rajasthan, Jaipur India</i> Antimicrobial and Antifungal properties of ZnO nanostructured materials	
P16	Sarita Boolchandani, Subodh Srivastava, Y.K. Vijay <i>Vivekananda Institute Of Technology-East, Jaipur</i> Preparation of Flexible SeAl Nanocomposite Thin Film FET junction	
P17	Rajesh K Gangwar, Subodh Srivastava, R K Khanna and Suwarna Datar <i>Vivekananda Global University, Jaipur India</i> Surface modification of thin multiwall CNTs with gold nanoparticles and its catalytic activity	
P18	S.K Jain <i>Department of Physics, Manipal University Jaipur-303007, India</i> Structural and Morphological study of T0.9Mn0.05Fe0.05O2 synthesized by sol gel wet chemical precipitation route	
P19	Kumud Kant Awasthi, Anjali Awasthi, P. J. John <i>Department of Zoology, University of Rajasthan, Jaipur INDIA</i> Reproductive toxicity of functionalized multi walled carbon nanotubes in Swiss albino mice	
P20	Minal Bafna, Ankit Gupta, R.K.Khanna and Y.K.Vijay <i>Department of Physics, Agarwal P. G. College, Jaipur INDIA</i> Development of Metal oxide Filler Polymeric Composite for Electromagnetic Shielding Purpose	
P21	Minal Bafna, Rakhi Tailor and Y.K.Vijay <i>Department of Physics, Agarwal P. G. College, Jaipur INDIA</i> Synthesis and Characterization of Carbon Soot Polymer Composites	
Session 8		Sensor applications
Chair: T. Strunskus		
16:40 – 17:20	IN8	Rosy and R. N. Goyal <i>Indian Institute of Technology Roorkee, Roorkee -247 667, India</i> Application of gold nanoparticles decorated poly-melamine modified glassy carbon sensor in the electrochemical analysis
17:20 – 17:40	O18	Ravindra U. Mene, Bhagyashri D. Shirpau, Megha P. Mahabole, D. K. Avasthi, Rajendra S. Khairnar <i>PDEA's, Annasaheb Waghire College of Science, Arts & Commerce, Otur, India</i> Surface Modified Metal Ion Doped Nano-Bio-Ceramic Thick Films for Gas Sensing Application: Effect of Swift Heavy Ion Irradiations
17:40 – 18:00	O19	S. Bishnoi <i>Department of Chemistry, Vivekanand Global University, Jaipur302025,</i> Use of “nanotubes-polymer nanocomposite film” modified pyrolytic graphite for the determination of betamethasone
18:00 –	International Organizing Committee meeting	

19:00		
20:00	Conference dinner	
Thursday, Nov. 5th, 2015		
Session 9 <i>Carbon-based composites</i>		Chair: R N. Goyal
09:00 – 09:20	O20	D. K. Avasthi <i>Inter University Accelerator Cente, Post Box 10502, New Delhi-India</i> Metal-carbon nanocomposites under extreme conditions
09:20 – 09:40	O21	R. K. Brajpuriya and N. Lisi <i>Amity University haryana, Panchgaon, Manesar, Gurgaon, India</i> Towards high quality CVD graphene growth and clean transfer using alternative polymer scaffolds
09:40 – 10:00	O22	A. Kumar , L. K. Jangir, Y. Kumari, M. Kumar, V. Kumar and K. Awasthi <i>Malaviya National Institute of Technology, Jaipur, India</i> Synthesis and characterization of PANI nanofiber with MWCNTs
10:00 – 10:40	Coffee break	
Session 10 <i>New developments and closing remarks</i>		Chair: I. Pilch
10:40 – 11:20	IN9	Y. K. Mishra <i>Christian-Albrechts-University at Kiel, Germany</i> Porous and flexible 3D nanocomposites: Hybrid nanomaterials for multifunctional applications
11:20 – 12:00	Closing remarks	
12:00 – 14:00	Lunch	