

(03) III-V and II-VI

Chair : **Muralidharan R**
Director
Solid State Physics Laboratory
Delhi 110054, India
Email: muralidharan@sspl.drdo.in

Co-Chairs : **Subhananda Chakrabarti**
Department of Electrical Engineering
Indian Institute of Technology-Bombay
Powai
Mumbai 400 076, India
E-Mail : subho@ee.iitb.ac.in

Ramam Akkipeddi
SERC nano Fabrication Processing and Characterisation (SnFPC)
Institute of Materials Research and Engineering (IMRE)
3, Research Link
Singapore 117602
Email: ram-akki@imre.a-star.edu.sg

(3) III-V AND II-VI**DETAILED PROGRAMME****Monday, 16-12-2013****Session I : 10.15 – 11.15**

10.15 - 10.30 (Oral 1)	A.P. Shah, M.R. Laskar, A.A.Rahman, M.R.Gokhale and Arnab Bhattacharya	ABS - 245 - ICA ICE-RIE etching of polar and non-polar AlN: Effect of BCl ₃ pre-treatment and comparison of Cl ₂ /Ar and Cl ₂ /BCl ₃ /Ar plasma chemistry
10.30 - 10.45 (Oral 2)	D.N. Bose	ABS - 317 - ICA Determination of hole effective mass and fine structure constant from transport properties of layered chalcogenide GaTe

Session II : 11.45 – 13.15

11.45 - 12.00 (Oral 3)	M. Mukherjee and D.N. Bose	ABS - 317a - ICA Comparison of SiC and GaN wide bandgap semiconductors as new sources for Terahertz generation
12.00 - 12.15 (Oral 4)	Avinash Patsha, S. Amirthapandian, Ramanathaswamy Pandian and S. Dhara	ABS - 340 - ICA Influence of Oxygen on Group III Nitride Nanowires
12.15 - 12.30 (Oral 5)	S.S. Kushvaha, M. Senthil Kumar, A.K. Shukla, Govind K., K. Maurya and B.K. Gupta	ABS - 464 - ICA Structural and Electronic properties of Low temperatures grown GaN epitaxial films by Laser Molecular Beam Epitaxy
12.30 - 12.45 (Oral 6)	S. Vijayalakshmi, A. Azizur Rahman, Nirupam Hatui, Arnab Bhattacharya, A.K. Bhatnagar and D. Das	ABS - 526 - ICA Surface preparation of non-polar and semi-polar GaN epilayers by chemical mechanical planarization (CMP) process

Session III : 16.00 – 18.00

16.00 - 16.15 (Oral 7)	H.P Bhaskar, Varun Thakur, Manoj Kesaria, S.M. Shiva Prasad and S. Dhar	ABS - 763 - ICA Transport and Optical Properties of c-axis Oriented Wedge Shaped GaN nonwall Network Grown by Molecular Beam Epitaxy
16.15 - 16.30 (Oral 8)	Akhilesh Pandey, Ashok Kumar Kapoor, Anand Kumar and R. Muralidharan	ABS - 802 - ICA Dislocation Density study on GaN/sapphire by Defect Etching and HRXRD
16.30 - 16.45 (Oral 9)	M. Vishwas, K. Narasimha Rao, D. Neela Priya, Ashok M. Raichur	ABS - 825 - ICA Influence of surfactant on optical, electrical and photo-catalytic properties of ZnO films

16.45 - 17.00 (Oral 10)	V. Suresh Kumar, S.Y. Ji, J.G. Kim, H.Harima, J.H.Choi, Y.T. Zhang, R.Katayama and T. Matsuoka	ABS - 974 - ICA Raman scattering studies and UV optical absorption spectrum of MOVPE grown InGaN epilayers
17.00 - 17.15 (Oral 11)	M.K. Rajpalke, W.M. Linhart, M. Birkett, Kin Man Yu, D.O. Scanlon, J. Buckeridge, T.S. Jones, M.J. Ashwin and T.D. Veal	ABS - 995 - ICA MBE grown and properties of GaSb _{1-x} Bi _x alloys
17.15 - 17.30 (Oral 12)	Anil M. Palve and Shivram S. Garje	ABS - 1029 - ICA Synthesis, characterization, X-ray single crystal structure of CdI ₂ (acetophenone thiosemicarbazone) complex and its use as single-source molecular precursor

Tuesday, 17-12-2013

Session IV : 10.15 – 11.15

10.15 - 10.30 (Oral 13)	R. Perumal, Zhixin Cui, Gilles Patriarche, Jean-Christophe Harmand and Kanji Yoh	ABS - 1284 - ICA Palladium-assisted growth of InAs nanowires by molecular beam epitaxy
10.30 - 10.45 (Oral 14)	Arthur Varghese and Shouvik Datta	ABS - 1334 - ICA Investigating the growth mechanism and optical properties of ordered arrays of CdS nanotubes grown on porous alumina

Session V : 11.45 – 13.15

11.45 - 12.00 (Oral 15)	Priti-Gupta, Shruti Subramanian, Mahesh R. Gokhale, Arnab Bhattacharya	ABS - 1354 - ICA Free-standing GaAs using MOVPE growth on CVD graphene
12.00 - 12.15 (Oral 16)	Anshuman Sahai, Navendu Goswami	ABS - 1366 - ICA Electro-explosion assisted synthesis of Copper Oxide Nano- structures and its Characterization
12.15 - 12.30 (Oral 17)	Manna Kumar Mishra, Rachna Manchanda, Renu Tyagi, O.P. Thakur, R.K. Sharma and R. Muralidharan	ABS - 1421 - ICA Analysis of Negative Magnetoresistance in GaN/AlGaN Heterostructures
12.30 - 12.45 (Oral 18)	Tapasya Jain, P.K. Sharma, Rachna Manchanda, Anuradha Dhau, O.P. Thakur and R.K. Sharma	ABS - 1454 - ICA Shubnikov de Haas Oscillations due to interfacial conduction in HgCdTe-CdZnTe heterostructures

Session VI : 16.00 – 18.00

16.00 - 16.15 (Oral 19)	K.P. Adhi	ABS - 1560 - ICA Growth and Characterization of Pulsed Laser Deposited Al Doped ZnO Thin Films on c-Al ₂ O ₃ and SiOx/Si (100) Substrates
16.15 - 16.30 (Oral 20)	Alok K. Srivastava, Monsur Islam, Kingsuk Mukhopadhyay, Arvind Saxena, Ashutosh Sharma	ABS - 1611 - ICA A novel route to grow cactus like nanostructures of ZnO and their application as gas sensors

Poster Session :

Tuesday, 17-12-103, 14.00 - 15.30

03 - Poster - 01	Sapana Ranwa, Giriraj Vyas, Mahesh Kumar	Electrical transport studies of ZnO nanorods/n-Si heterostructures formed by RF sputtering	ABS - 64 - ICA
03 - Poster - 02	D.S. Narang, K.D. Patel, V.M. Pathak and R.Srivastava	Transport and Surface Microtopographic studies of Mo _{0.25} W _{0.75} Se ₂ Single Crystals grown by DVT Technique	ABS - 150 - ICA
03 - Poster - 03	Kanika Bansal and Shouvik Datta	Study of the Dielectric Response from <i>Active</i> AlGaInP Based Light Emitting Diodes	ABS - 382 - ICA
03 - Poster - 04	Saritha A. C, Sasanka kumar S, Hasna K, Subha P. P, Vikas L.S, Shijeesh M. R, and M. K Jayaraj	Transparent, p-type semiconducting ZnO:Ag thin films deposited by PLD	ABS - 539 - ICA
03 - Poster - 05	B.N. Patil and S.A. Acharya	Photodegradation of industrial waste by using nanoparticles of ZnS	ABS - 941 - ICA
03 - Poster - 06	Sudhir S. Kamble and J.K. Radhakrishnan	Characterization of ZnO thin films prepared by Reactive re-Magnetron Sputtering : <i>Effect of Oxygen Concentration</i>	ABS - 1021 - ICA
03 - Poster - 07	Shivesh Yadav, S. Dhar	VLS Grown r-plane Straight GaN Nanowire	ABS - 1086 - ICA
03 - Poster - 08	Joynarayan Mukherjee, M. Ramanjaneyulu and M.S. Ramachandra Rao	Synthesis and characterization of Indium doped ZnO nanorods for UV detection	ABS - 1099 - ICA
03 - Poster - 09	F. Bellarmine, R.K. Kalaiezhily, K. Ravi Chandran and M.S. Ramachandra Rao	Structural and optical studies of Sb, N co-doped ZnO thin films prepared by pulsed laser deposition	ABS - 1359 - ICA
03 - Poster - 10	B.C. Keswani, A. Mandal, S.D. Shinde, S.K. Adhi and K.P. Adhi	Role of Oxygen Pressure in Growth of Pulsed Laser Deposited Zn _{0.99} Eu _{0.01} O Thin Films	ABS - 1560 - ICA