

Workshop on Science with Rare Ion Beams (SCRIBE-2014) Nov 25-28, 2014, VECC

SCRIBE-2014 - Programme

Venue: Meghnad Saha Auditorium, SINP

DAY 1 : Nov. 25, 2014 ; Tuesday

9:00 – 10:00 **Registration**

10:00 – 11:00 **Inaugural Session**

11:00 - 11:30 **Tea/Coffee**

Session – 1 : Physics with rare ion beams (11:30 – 13:15) Chair: D.K. Srivastava

1	11:30 - 12:05	T. Kubo, RIKEN Nishina Centre, Japan	Overview and status of the experimental facilities at RIKEN RI Beam Factory (RIBF)
2	12:05 - 12:40	Reiner Kruecken, TRIUMF, Canada	Isotopes for science and medicine at TRIUMF's ISAC facility
3	12:40-13:15	P. J. Woods, Univ. of Edinburgh, UK	Experiments for explosive nuclear astrophysics

Lunch (13:15 –14:30)

Session – 2 : RIB facilities (14:30 – 16:00) Chair: Swapan Chattopadhyay

4	14:30 - 15:00	O. Kester, GSI, Germany	The accelerators of the Facility for Antiprotons and Ion Research – FAIR
5	15:00 - 15:30	Lia Merminga, TRIUMF, Canada	ARIEL at TRIUMF - status and plans
6	15:30 - 16:00	Alok Chakrabarti, VECC Kolkata, India	ANURIB - the new RIB facility at VECC

Tea/Coffee (16:00 –16:30)

Session – 3 : Accelerator technology (16:30 – 17:50) Ajay Divatia Hall, VECC Chair: Subimal Saha

7	16:30 - 17:00	Naruhiko Sakamoto, RIKEN Nishina Center, Japan	Present performance of the RF systems for the RIBF accelerator complex and their upgrade plan
8	17:00 - 17:25	Frank Ebskamp, DANFYSIK, Denmark	Development of new accelerator technologies with applications in Science, Industry and Healthcare
9	17:25 - 17:50	Amiya Mitra, TRIUMF, Canada	Installation and commissioning of high power RF system for TRIUMF e-LINAC

Cultural function (18:00) at Meghnad Saha Auditorium, VECC-SINP campus

Dinner hosted by Director VECC (19:30) at VECC Guest-house

End of Day-1 programme

DAY 2 : Nov. 26, 2014 ; Wednesday

Session – 4 : Accelerators & RIB facilities (9:30 – 11:00) Chair: Lia Merminga

10	9:30 – 10:00	D. W. Stracner, ORNL, USA	Radioactive Ion Beams at HRIBF
11	10:00 – 10:30	Dinakar Kanjilal, IUAC, N. Delhi, India	Accelerator & related developments at IUAC
12	10:30 – 11:00	Serge Franchoo, IPN Orsay, France	The ALTO photofission facility at IPN, Orsay

Tea/Coffee (11:00 - 11:30)

Session – 5 : Nuclear structure & astrophysics (11:30 – 13:00) Reiner Kruecken

13	11:30 - 12:00	P.A. Butler, Univ. of Liverpool, UK	Studies of shapes of heavy nuclei at ISOLDE
14	12:00 - 12:30	V. M. Datar, BARC Mumbai, India	Melting of shell effects in doubly closed shell Pb-208
15	12:30 - 13:00	Hiro Iwasaki, Michigan State Univ., USA	Collective properties of exotic nuclei studied with GREINA at NSCL

Lunch (13:15 –14:30)

Session – 6 : Nuclear structure (14:30 – 16:00) Chair : Dinakar Kanjilal

16	14:30 - 15:00	A. Navin, GANIL, France	Quantum mechanics at the femtoscale : Nuclear reactions with 'Exotic beams'
17	15:00 - 15:30	R. Kanungo, Saint Mary's Univ., Canada	Structure of exotic nuclei probed with low and high energy RI Beams
18	15:30 - 16:00	Usashi Dutta Pramanik, SINP Kolkata, India	Journey to 'Nuclear Island of Inversion' using a novel spectroscopic tool

Tea/Coffee (16:00 –16:30)

Session – 7 : RIB facilities (16:30 – 18:00) Chair : Andrew Hutton

19	16:30 - 17:00	Hyung Jin Kim, IBS, Korea	Status of RAON Accelerator systems
20	17:00 - 17:30	Arup Bandyopadhyay, VECC Kolkata, India	Radioactive Ion Beam development at VECC
21	17:30 - 18:00	Subir Nath, IUAC, N. Delhi, India	Development and utilization in-flight radioactive ion beams at IUAC

End of Day-2 programme

DAY 3 : Nov. 27, 2014 ; Thursday

Session - 8 : Multidisciplinary sciences (9:30 – 11:00) Chair: Susanta Lahiri

22	9:30 – 10:00	Lokesh C. Tribedi, TIFR, Mumbai, India	Atomic collisions in mesoscopic objects using high energy heavy-ions
23	10:00 – 10:20	P. Karmakar, VECC Kolkata, India	Nanopatterning and ion-surface interaction studies by stable and exotic ion-beams from VECC RIB facility
24	10:20 – 10:40	Dirtha Sanyal, VECC Kolkata, India	Possible synthesis and characterization of dilute magnetic semiconductors using ion beams from VEC-RIB facility
25	10:40 - 11:00	Moumita Maiti, IIT Roorkee, India	A long way to confirm element 117

Tea/Coffee (11:00 - 11:30)

Session – 9 : Nuclear structure (11:30 – 13:00) Chair: Ajit Kumar Sinha

26	11:30 - 12:00	R. Palit, TIFR Mumbai, India	Exotic nuclear rotations
27	12:00 - 12:30	C. Bhattacharya, VECC Kolkata, India	Detector facilities at VECC
28	12:30 - 13:00	S. S. Ghugre, UGC-DAE CSR-KC, Kolkata, India	Near yrast nuclear spectroscopy studies with INGA

Workshop photograph (13:00 - 13:30)

Lunch (13:30 –14:45)

Session – 10: VECC-TRIUMF collaboration (14:45 – 17:15) Chair: R.K. Bhandari

29	14:45 - 15:15	R. E. Laxdal, TRIUMF, Canada	ARIEL e-LINAC facility at TRIUMF
20	15:15 - 15:45	P. G. Bricault, TRIUMF, Canada	ARIEL facility target stations concepts and plans
31	15:45 - 16:15	Vaishali Naik, VECC Kolkata, India	Superconducting electron linac development at VECC
32	16:15 - 16:35	Manas Mondal, VECC Kolkata, India	Engineering design and development of Capture Cryo Module for e-Linac at VECC
33	16:35 - 16:55	Manir Ahammed, VECC Kolkata, India	Development of 4K to 2K cryogenic test set-up for e-Linac at VECC
34	16:55 - 17:15	Chinmay Nandi, VECC Kolkata, India	Target Modules and layout of ANURIB ph-1 building

Tea/Coffee (17:15 –17:45)

AJAY DIVATIA MEMORIAL LECTURE (17:45 - 19:15)

Banquet hosted by TRIUMF Accelerator Division (19:45 at Pride Hotel)

End of Day-3 programme

DAY 4 : Nov. 28, 2014 ; Friday

Session – 11 : Nuclear structure (9:30 - 11:00) Chair: Satyajit Saha

35	9:30 – 10:00	Jurgen Gerl, GSI, Germany	NUSTAR physics & instrumentation
36	10:00 – 10:30	Sailajananda Bhattacharya, VECC Kolkata, India	Experimental nuclear physics activities at VECC
37	10:30 – 11:00	S.R. Banerjee, VECC Kolkata, India	Giant Dipole Resonance strengths as a probe for structure of nuclei at extremes

Tea/Coffee (11:00 - 11:30)

Session – 12 : Nuclear structure, astrophysics & facilities (11:30 - 13:30) Chair: Santanu Pal

38	11:30 - 12:00	D.N. Basu, VECC Kolkata, India	Nuclear Astrophysics - recent theoretical studies at VECC
39	12:00 - 12:25	Nico Orce, Univ. Western Cape, SA	Breaking the Heaven's code - everything may have started at TRIUMF
40	12:25 - 12:50	P. C. Srivastava, IIT Roorkee, India	Nuclear Structure of neutron rich nuclei towards N=50
41	12:50 - 13:10	Siddhartha Dechoudhury, VECC Kolkata, India	Assymetrical alternate phase focusing scheme and multiple charge acceleration in the upcoming ANURIB facility
42	13:10 - 13:30	Atanu Dutta, VECC Kolkata, India	Physics Design of proton driver

Lunch (13:30 –14:45)

Session – 13 Concluding session Chair: Alok Chakrabarti

	14:45 - 15:15	Sailajananda Bhattacharya, VECC Kolkata, India	Summary : Science
	15:15 - 15:45	R.E. Laxdal, TRIUMF, Canada	Summary : Technology
	15:45 - 16:00	Secretary, SCRIBE-2014	Vote of thanks

***** End of Workshop*****