

PROVISIONAL PROGRAMME

IAEA International Symposium on Utilization of Accelerators 5-9 June 2005 Dubrovnik, Croatia

SATURDAY, 4 JUNE 2005

17:00-19:00 Registration

SUNDAY, 5 JUNE 2005

08:30 Registration

10:00-10:40 OPENING ADDRESSES

10:40-15:20 SESSION 1:
ACCELERATOR FACILITIES

Chairperson:

<i>No of Paper IAEA-CN-115-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
01	H. Schopper	Switzerland	40	TBD
02	M. Jaksic	Croatia	20	Accelerator laboratory of the Ruder Boskovic Institute
03	E. Liukkonen	Finland	20	TBD
04	K. Bharuth-Ram	South Africa	20	TBD
05	P.V. Bhagwat	India	20	Status of Heavy Ion Accelerator Technology activities at BARC
06	Bum-Soo Han	Republic of Korea	20	Electron Beam Treatment Plant for Textile Dyeing Wastewater

13:00-14:20 Lunch Break

SUNDAY, 5 JUNE 2005**14:20–15:20 SESSION 1 CONT'D:****Chairperson:**

<i>No of Paper IAEA-CN-115-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
07	T. Vilaithong	Thailand	20	Low-energy ion beam applications on materials modification and biology
08	E. Sideras-Haddad	South Africa	20	Development of an AMS Facility with the 6MV EN Tandem Accelerator at Itembha Labs - Johannesburg
09	M.L. Roberts	USA	20	Continuous-Flow Accelerator Mass Spectrometry

15:20–15:40 Coffee Break**15:40-17:20 SESSION 2:
ACCELERATOR MASS SPECTROMETRY****Chairperson:**

10	J.Southon	USA	20	High throughput, high precision ¹⁴ C AMS with a small accelerator
11	A. Priller	Austria	20	AMS with ¹⁰ Be from Environmental Samples
12	A. Wallner	Austria	20	Boundaries in Measuring different Pu Isotopes via AMS and alpha-spectrometry
13	Shoaib Ahmad	Pakistan	20	A comparative study of the identification of heavy carbon clusters with Direct Recoil Spectroscopy (DRS) and ExB velocity spectrometer on PINSTECH accelerator
14	M.A.Hamid Khan	Bangladesh	20	Measurement of Composition and Thickness of Thin Targets using 3 MeV Van de Graaff Accelerator

19:00 Joint IAEA/IRB Reception

MONDAY, 6 JUNE 2005

9:00-13:00

**SESSION 3:
MATERIALS MODIFICATION
ION BEAM ANALYSIS**

Chairperson:

<i>No of Paper IAEA-CN-115-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
15	L. Longoria Gándaria	Mexico	20	Characterisation of Materials using Accelerators
16	S. Fazinic	Croatia	20	Analysis of inorganic pigments by Nuclear Microprobe: the case of the paintings by the Master HGG
17	M. Roumie	Lebanon	20	Pixe Protocol Setup For Cluster Analysis Of Archeological Samples
18	A.K.M.Fazlul Hoque	Bangladesh	20	Study of human milk composition using PIXE-PIGE techniques
19	I. Bogdanovic- Radovic	Croatia	20	Amorphus Silicon Solar Cell Characterization using Ion- Induced Electron Emission ERDA on the Nuclear Microprobe in Zagreb
10:40-11:00	Coffee Break			
20	S. Bamford	IAEA	20	Optimization of RBS Analysis as an Input for Quantification in X-ray Emission Techniques
21	K. Bharuth-Ram	South Africa	20	Direct determination of the Lattice Location of Ion- implanted Radioactive atoms in Crystalline Materials by Emission Channeling Measurements
22	A. Gurbich	Russian Federation	20	Current Status of the Problem of Cross Section Data for Ion Beam Analysis
23	E.J. Teo	Singapore	20	Proton beam writing of microstructures in silicon
24	A. Bettiol	Singapore	20	Fabrication of polymeric photonic structures using proton beam
25			20	
13:00-14:20	Lunch Break			

MONDAY, 6 JUNE 2005**14:20-17:20 SESSION 4: ELECTRON AND
PHOTON BEAM IRRADIATION**

Chairperson:

<i>No of Paper IAEA-CN-115</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
26	A. Gurbich	Russian Federation	20	Accelerator Based Technique of Fission Fragment Implantation for Wear Studies
27	J. Bigolas	Poland	20	6 MeV Radiographic Facility at Swierk
28	A. Sharma	India	20	Intense Pulsed Power Electron Accelerators Developed at BARC
15:20-15:40	Coffee Break			
29	C. Giovedi	Brazil	20	Effect of Electron Beam Irradiation on Carbon Fiber Tensile Properties
30	E.S. Pino	Brazil	20	Mechanical Properties of Electron Beam Irradiated Polyamide 6,6
31	Jianhua Zu	China	20	Use of electron beam in pre-irradiation grafting of material for industrial application
32	A. Adjerad	Algeria	20	Space charge measurement for dielectric materials under irradiation

TUESDAY, 7 JUNE 2005

**08:40-10:40 SESSION 4: CONT'D
ELECTRON AND
PHOTON BEAM IRRADIATION I**

Chairperson:

<i>No of Paper IAEA-CN-115-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
30	A. Chmielewski	IAEA	20	TBD
31	Z. Zimek	Poland	20	Safe Industrial Electron Accelerators Operation in Extended Period of Exploitation
32	D. Ighigeanu	Romania	20	Electron Beam Sterilization of the Agarose Gel Used for Electrophoresis
33	Myun-Joo Lee	Rep. of Korea	20	Evaluation on ecological stability and biodegradation of dyeing wastewater pre-treated by electron beam
34	S.F. Sabato	Brazil	20	Effect of ionizing radiation in Tilapia protein biofilms
35	Yu Ri Kim	Republic of Korea	20	Disinfection of Total Coli-forms in the Effluent from Municipal Wastewater Plant with Electron Beam

10:40-11:00 Coffee Break

**11:00-15:20 SESSION 5: ACCELERATOR DRIVEN
SYSTEMS
Chairperson:**

35	A. Stanculescu	IAEA	20	TBD
36	W. Gudowski	Sweden	20	TBD
37	V.N. Shvetsov	Russian Federation	20	The subcritical assembly at DUBNA (SAD): coupling all major components of an accelerator driven system (ADS) for nuclear waste incineration
38	A. Mueller	France	20	A Reference Concept for ADS Accelerators
39	H. Ait Abderrahim	Belgium	20	MYRRHA – A Proof-of-Principle ADS Facility
40	S. Chigrinov	Belarus	20	Subcritical Assemblies with fast and thermal neutron spectrum driven with High Intensity Neutron Generator NG-12-1

13:00-14:20 Lunch Break

TUESDAY, 7 JUNE 2005**14:20-15:20 SESSION 5 CONT'D:****Chairperson:**

<i>No of Paper IAEA-CN-115</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
41	H.I. Kiyavitskaya	Belarus	20	Application Of Low Energy Accelerators For The Investigation Of Ads Neutronics
42	?	?	20	
43	P. Roychowdury	India	20	High Current Low Emittance ECR Ion Source Development for ADS Applications

15:20 Optional boat/city tour

WEDNESDAY, 8 JUNE 2005**9:00-10:40 SESSION 6:
ELECTRON AND
PHOTON BEAM IRRADIATION II****Chairperson:**

<i>No of Paper IAEA-CN-115/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
44	D. Martin	Romania	20	Synergistic Effects Obtained by Combined Electron Beam and Microwave Irradiation
45	E. Manaila	Romania	20	Electron Beam Processed Polyelectrolites
46	Bum-Soo Han	Republic of Korea	20	??
47	C. Lopes-Duarte	Brazil	20	Present Status Of Environmental Application Of Electron Beam Accelerator In Brazil
48	S.V. Venkatesvaran	India	20	Application of DC Accelerator for Irradiation of Industrial and Agricultural Products

10:40-11:00 Coffee Break**9:00-10:40 SESSION 7:
BIOMEDICAL APPLICATIONS****Chairperson:**

49	D. Schardt	Germany	40	Tumor Therapy with Heavy Ions at GSI Darmstadt
50	K. Slosarek	Poland	20	New Possibilities for Accelerators in Radiotherapy
51	M. Kimura	Japan	20	Heavy-ion cancer therapy in Fukuoka
52	J. Ncapayi	South Africa	20	Upgrading of the accelerator facilities to increase the production of radionuclides at iThemba LABS
53	S-J. Heselius	Finland	20	TBD

13:00-14:20 Lunch Break

WEDNESDAY, 8 JUNE 2005**14:20-17:20 SESSION 8: APPLICATIONS OF
ACCELERATORS FOR THE SAFETY
AND SECURITY OF PEOPLE****Chairperson:**

<i>No of Paper IAEA-CN-115/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
54	R. Lanza	USA	20	TBD
55	G. Nebbia	Italy	20	The Use of Neutron Generators for the Detection of Illicit Materials in the Sea Transportation System
56	V.A. Gribkov	Poland	20	Plasma Accelerator for Detection of Hidden Objects by Using Nanosecond Impulse Inspection System
15:20-15:40	Coffee Break			
57	A. Kuznetsov	Russian Federation	20	Using of Neutron Generator with APT/NNA for Detection of Explosives
58	M. Aziz	Egypt	20	Parametric Studies for Landmine Detection using D-T 14 Mev Neutron Source
59	A. Buffler	South Africa	20	TBD
60	L. Lakosi	Hungary	20	Photoneutron interrogation of U-samples by a 4 MeV LINAC. A feasibility study
			20	
19:00	Conference dinner (optional)			

THURSDAY, 9 JUNE 2005**9:00-11:00 SESSION 9:
ACCELERATOR TECHNOLOGY**

Chairperson:

<i>No of Paper IAEA-CN-115/</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Time (min)</i>	<i>Title of Paper</i>
61	D. Trbojevic	USA	20	Non-Scaling Fixed Field Gradient Accelerator (FFAG) Design for Proton and Carbon Therapy
62	S. Lebed	Ukraine	20	New conceptual design of a compact unit: accelerator – nuclear microprobe
63	C. Franklyn	South Africa	20	Compact variable-energy neutron generators for fast neutron applications
64	K. Govender	South Africa	20	Use of plasma window for enhanced ion beam transmission from vacuum to air
65	S.G.Z. Zakhary	Egypt	20	Status of the Current Developments Of RF Ion Sources in Egypt
66	M. Aziz	Egypt	20	Design of Thermal and Epithermal Neutron Beam Facilities at MGC-20 Cyclotron

11:00–11:20 Coffee Break**11:20-12:20 SESSION 10 :
ROUND TABLE ON UTILIZATION OF
ACCELERATORS**

Chairperson: H. Vera-Ruiz

12:20-13:00 SYMPOSIUM CLOSING

