

14th A-PBA Annual Pre-Conference Workshop 2019

Hotel Intercontinental, Dhaka

Program

Day 1: Tuesday, 17 Sept 2019

Venue/Time/ Workshop	Program	Trainers
Room 1 (Modhumoti) 9.00-5.00pm WS 1	WS 1: PREPARATORY COURSE FOR IFBA BIORISK MANAGEMENT PROFESSIONAL CERTIFICATION Brief introduction by Maureen Ellis, IFBA <ul style="list-style-type: none"> The essential elements of CWA 15793 Internal certification exam: Syllabus outline & preparation The essential elements of CWA 15793 Core competencies of a biosafety professional 	Professor Dr Lim Yang Mooi , Chairperson, Centre for Cancer Research, Department of Pre-Clinical Science, Universiti Tunku Abdul Rahman, Malaysia Dr Tan Cheng Siang University Malaysia Sarawak, Malaysia
Room 2 (Turag) 9.00-12.00pm WS2	WS 2: WORKING IN BIO-CONTAINMENT LAB – CHALLENGES & SOLUTIONS FOR A SAFE & SUSTAINABLE LABORATORY <ul style="list-style-type: none"> Containment labs Working with high risk pathogens: SOPs and PPE Biocontainment designs and engineering Operational sustainable solutions for developing country budgets 	Eng Dan Yoong , World BioHazTec Inc., Singapore
Room 2 (Turag) 2.00 – 5.00pm WS3	WS 3: BIOSAFETY CABINET – WHAT YOU NEED TO KNOW TO KEEP YOU AND YOUR LAB SAFE <ul style="list-style-type: none"> Types of Biological Safety Cabinet and its purposes Performance and function of BSC Safety and proper use of BSC Maintenance and operation Process & critical elements Certification and validation 	Eng Kenny Chee , Global Technical Support Manager ESCO GLOBAL Singapore
Room 3 (Board Room) 9.00-12.00pm WS 4	WS 4: INSTITUTIONAL BIOSAFETY COMMITTEE: ROLES & LEADERSHIP TOOLS <ul style="list-style-type: none"> Biosafety and biosecurity issues in Biological Sciences Institutional Biosafety Committee Roles and responsibilities of IBC, members, chair and the Biosafety Officer What does it take to be a Biosafety Officer? Leadership Tools for Today's Biosafety Officer 	Dr Saraswathy Subramaniam , Biosafety Consultant, Malaysia and President, Asia Pacific Biosafety Association
Room 3 (Board Room) 2.00 – 5.00pm WS5	WS 5: BIOSECURITY AND BIOTHREAT REDUCTION: COUNTRY EXPERIENCES <ul style="list-style-type: none"> Biological threats from misuse of biological agents Biological and Toxin Weapons Convention Biosecurity implementation and bioterrorism reduction Measures for promoting awareness among scientists Panel discussion 	Dr Saraswathy Subramaniam , Biosafety Consultant, Malaysia Brigadier General (Dr) Saidur Rahman , Deputy Commandant and Director of Training, Armed Forces Medical College, Dhaka Panelist: Bangladesh, Vietnam, Cambodia, Indonesia

Day 2: Wednesday, 18 Sept 2019

Venue/Time/ Workshop	Program	Trainers
Room 1 (Modhumoti) 9.00 – 5.00pm WS 6	WS 6: DISEASE OUTBREAK INVESTIGATION: NATURAL AND DELIBERATE <ul style="list-style-type: none"> • Disease Surveillance, control & prevention • Epidemiological investigation of disease outbreaks • Natural and deliberate bio threat • Public health Preparedness, control and communication • Risk Management at all levels: Biosafety and Biosecurity • Case scenario: Nipah outbreak 	Dr Julie E. Fischer , Director, Elizabeth R. Griffin Program, Center for Global Health Science and Security, Georgetown University Medical Center Department of Microbiology and Immunology Dr Asadulghani , Head Biosafety and BSL3, International Centre for Diarrhoeal Disease Research, Bangladesh
Room 2 (Turag) 9.00- 12.00pm WS 7	WS 7: BIOSAFETY INSPECTIONS AND AUDIT <ul style="list-style-type: none"> • What is an audit • Characteristics of audit • Safety Audit Team and Why to conduct an audit • Audit process • Scenarios 	Mr David Lam , Senior Manager Biosafety, Singapore General Hospital, Singapore
Room 2 (Turag) 2.00 – 5.00pm WS 8	WS 8: RISK COMMUNICATION IN PUBLIC HEALTH EMERGENCIES <ul style="list-style-type: none"> • Understand what is risk communication and why should we care • Understand theories and ways for effective communication • Communicating under high concern situations • Practice risk communication skills: develop messages that are believable, convincing, clear and positive 	Dr William Arndt International Program Lead, SELS/DLS/QSSB CDC, Atlanta, USA Dr Natasha K Griffith , Branch Chief Quality and Safety Systems Branch, DLS, OD, CSELS, CDC, Atlanta, GA
Room 3 (Board Room) 9.00- 12.00pm WS 9	WS 9: ANIMAL AND ARTHROPOD BIOSAFETY AND CONTAINMENT <ul style="list-style-type: none"> • Good lab design to optimize lab procedures and Standard Operating Procedures (SOPs). • BL vs. ABL vs. ACL (Biosafety Level vs. Animal Biosafety Level vs. Arthropod Containment Level) • Animal facility planning and design considerations: ABL-2 and ABL-3 • Insect facility planning and design considerations: ACL-2 and ACL-3 	Mr Steve Breslin , Senior Architect and Chief of the Standards and Policy Branch, Office of research Facilities, National Institute of Health USA
Room 3 (Board Room) 2.00 – 5.00pm WS 10	WS 10: BIOLOGICAL WASTE MANAGEMENT <ul style="list-style-type: none"> • Type of biological waste • Segregation, Packaging, Transportation, Treatment and Disposal of Biological Waste • Reuse, reduce and recycling of waste • Biological waste management guidelines 	Dr Philippe Stroot , General Manager and Principal Expert at XIBIOS Biosafety Consulting, Tournai, Wallonia, Belgium

14th A-PBA Annual Biorisk Conference on “Biosafety & Biosecurity - For Sustainable Development in Health and Agriculture”

Grand Ball Room and Crystal Ball Room, Hotel Intercontinental, Dhaka, Bangladesh

P r o g r a m

DAY 1: 19th September 2019

08.00 – 09.30 Registration

Inaugural Session

Facilitated by Dr Tania Mannan, Assistant Professor, Bangladesh University of Health Sciences & Faculty Member and the Member of the General Body, Chhayanaut

09:30 – 09:40 Recitation from the Holy Books

09:40 – 10:00 Introducing Culture of Six Seasons in Bangladesh, Sharmila Banerjee, Nriyandan and Ms Tania Mannan, Chhayanaut

10:01 – 10:10 Welcome address - **Dr Saraswathy Subramaniam**, President, Asia Pacific Biosafety Association and **Dr Asadulghani**, President, Bangladesh Biosafety and Biosecurity Society

10:11 – 10:15 Address by **Special Guest, Professor John D Clemens**, Executive Director, International Centre For Diarrhoeal Disease Research, Bangladesh

10:16 – 10:20 Address by **Special Guest, Professor Dr Abul Kalam Azad**, Honorable Director General of Health Services, Ministry of Health and Family Welfare, Government of the People's Republic of Bangladesh

10:21 – 10:25 Address by **Special Guest, Mr Md Ashadul Islam**, Honorable Secretary, Health Care Division, Ministry of Health and Family Welfare Government of the People's Republic of Bangladesh

10:26 – 10:35 Address by the **Chief Guest, Mr Md. Atiqul Islam, Honorable MAYOR**, Dhaka North City Corporation

10:36 – 11:40 Group photo

10:41 – 11:00 Coffee/Tea Break

Technical Session 1 : Global Updates on Biosafety and Biosecurity

11:01 – 12:40

Panel members:

Professor Dr Nasima Sultana, Additional Director General, Ministry of Health and Family Welfare, Bangladesh

Professor Dr Viji Vijayan, Assistant Dean, Safety, Health, Emergency, National University of Singapore

Professor Dr Mohammad Hafizur Rahman, Professor, Department of Biochemistry, Dhaka Medical College, Bangladesh

11:01 – 11:20 WHO Laboratory Biosafety Manual revision and other activities - **Dr Kazunobu Kojima**, Scientist, Country Health Emergency, Preparedness & IHR (CPI), World Health Organization

11:21 – 11:40 Biosafety in Microbiological and Biomedical Laboratories - **Dr Natasha K Griffith**, Branch Chief Quality and Safety Systems Branch, DLS, OD, CSELS, CDC, Atlanta, GA

11:41 – 12:00 Evolving Technology shaping New Challenges in Counter – Bioterrorism - **Dr Chua Teck Mean**, Biosafety Consultant, Temasek Life Science Laboratory, National University of Singapore, Singapore

12:01 – 12:20 Assessment of Biosafety Capacity and Development Activities in Veterinary Laboratories in Southeast and Southern Asia – **Dr Stacie E. Dunkle**, Epidemiologist, Emergency Centre for Transboundary Animal Diseases, Food and Agriculture Organization of the United Nations, Bangladesh

12:21 – 12:40 Personal Climate Change – How it Influences at the National, Regional and Global Levels - **Dr James Welch**, Elizabeth R Griffin Foundation, Center for Global Health Science and Security

12:41 - 14:00 Lunch Break

Technical Session 2 : Current Status of Biosafety and Biosecurity in Asia Pacific

14:01 – 15:30

Panel members:

Professor Dr Imdadul Hoque, Dean Biological Sciences, University of Dhaka, Bangladesh

Professor Dr Lim Yang Mooi, Chairperson, Centre for Cancer Research, Department of Pre-Clinical Science, Faculty of Medicine & Health Sciences, Universiti Tunku Abdul Rahman, Malaysia

Professor Dr Nurun Nabi, Dept of Biochemistry and Molecular Biology, University of Dhaka, Bangladesh

14:01 – 14:20 Strengthening Biosafety and Biosecurity Status in Bangladesh - A Sustainable Approach - **Dr Pawan Angra**, Division of Global Health Protection, Center for Global Health, CDC, Atlanta, GA

4:21 – 14:40 Laboratory Biosafety and Global Public Health - **Professor Dr Guizhen Wu** National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China

14:41 – 15:00 Biosafety and Biosecurity in Polio Eradication in Bangladesh - **Dr Mahbuba Jamil**, Country Coordinator and Member Secretary National Task Force on Laboratory Containment of Poliovirus, Ministry of Health and Family Welfare, Bangladesh

15:01 – 15:20 Health Security Partners (HSP) Programs and Regional collaborations on biosecurity - **Dr Prasad Kuduvalli** - Director of Scientific Programs at Health Security Partners, Washington, District of Columbia

15:21 – 15:30 Q/A

15:31 – 16:00 Coffee/Tea Break

Technical Session 3 : Emerging Science and Technology – New Challenges

16:01 – 17:30

Panel members:

Professor Dr Sharif Akhtaruzzaman, Department of Genetic Engineering and Biotechnology, University of Dhaka, Bangladesh

Dr Philippe Stroot, General Manager and Principal Expert, XIBIOS Biosafety Consulting, Tournai, Wallonia, Belgium

Dr Md Salimullah, Director General, National Institute of Biotechnology, Dhaka, Bangladesh

16:01 – 16:20 Progress in transgenic and other innovative vector control strategies for dengue and malaria in India: Preparedness for Best-Practice Guidance including regulatory, biosafety and deployment aspects - **Prof. Dr BK Tyagi**, Core Faculty, SERB-DST's School of Insect Biology, Hyderabad University, Hyderabad

16:20 – 16:40 CRISPR-mediated Genome Editing Technology in Agriculture: Issues with Biosafety and Biosecurity - **Dr Abidur Rahman**, Dept of Plant Bio Sciences, Fac of Agriculture, Iwate University, Japan

16:41 – 17:00 Biosecurity in Vietnam - **Dr Trinh Thi Thanh Huong**, Head, Division of Biosafety, National Institute of Hygiene and Epidemiology

17:01 – 17:10 Q/A

17:11 – 17:30 Preparatory Break for AGM

17:31 – 19:00 A-PBA AGM

19:01 – 20:00 Cultural Program – Coordinated by Dr Tania Mannan, University of Health Sciences, Bangladesh

20:01 – 21:00 Networking Dinner - Registered Participants

Program

DAY 2: 20th September 2019

Technical Session 4 : Facility and Biocontainment

09:01 – 10:30

Panel members:

Dr Chua Teck Mean, Biosafety Consultant, Temasek Life Sciences Laboratory, Singapore

Professor Dr Ahmed Abu Saleh, Chairman, Dept of Microbiology and Immunology, Bangabandhu Sheikh Mujib Medical University, Bangladesh

Professor Dr Rakibul Islam, Department of Biochemistry and Molecular Biology, University of Dhaka, Bangladesh

09:01 – 09:20 What if it doesn't work? – What We Can Learn from Our Mistakes? - **Dr Natasha K Griffith**, Center for Surveillance, Epidemiology, and Laboratory Services, CDC, Atlanta, USA

09:21–09:40 Animal and Insect Facilities: Planning and Programming Considerations - **Mr Steven Breslin**, Sr Architect and Chief of the Stds & Policy Branch, NIH, USA

09:41 –10:00 Biological Safety Cabinet certification: Overview of NSF's accreditation programs, lessons learned and opportunities for the future - **Mr Bhajan Bhagwant Singh**, NSF International

10:01 – 10:20 Quality, Safety and Facility – Lessons learnt from certifying MDR TB diagnostic facilities - **Mr Dan Yoong**, World BioHazTec Inc. Singapore

10:21 – 10:30 Q/A

10:31- 11:00 **Coffee/Tea Break**

Technical Session 5: Public Health – Emerging and Re-emerging Threats

11:01 – 12:30

Panel members:

Professor Dr Sanya Tahmina, Communicable Disease Control, Ministry of Health and Family Welfare, Bangladesh

Dr Joko Pamungkas, Senior Scientist, Primate Research Center at IPB University, Bogor, Indonesia

Dr Chandan Kumar Roy, Associate Professor, Department of Microbiology and Immunology, Bangabandhu Sheikh Mujib Medical University

11:01 – 11:20 Public Health Challenges in Bangladesh and Biosafety and Biosecurity Concerns - **Prof Dr Benazir Ahmed**, National Consultant, Coordination & Support Center, Directorate General of Health Services

11:21 – 11:40 Progress in the antigen-specific T-cell immunity to emerging highly-pathogenic viruses and the application in universal vaccine - **Professor Dr William J. Liu**, National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China

11:41 – 12:00 Challenges of TB in India and the relevance of BSL3 laboratories in Medical Research Institutes - **Dr Vikram Saini**, All India Institute of Medical Sciences, New Delhi, India

12:01 – 12:20 Emerging and Reemerging Zoonotic Diseases in Bangladesh - **Dr Md Giasuddin**, Head, Animal Hlth Research Div Bangladesh Livestock Research Institute, Savar

12:21 – 12:30 Q/A

12:31 – 14:00 **Lunch Break**

Technical Session 6 : Food and Agricultural Safety and Security

14:01 – 15:30

Panel members:

Dr Julie E. Fischer, Director, Elizabeth R. Griffin Program, Center for Global Health Science and Security, Georgetown University Medical Center, Department of Microbiology and Immunology

Professor Dr Rakha Hari Sarker, Chairman, Department of Botany, University of Dhaka, Bangladesh

Professor Dr Md Shahidul Islam, Head of the Dept of Biotechnology Agricultural University, Mymensingh, Bangladesh

14:01 – 14:20 Food Biosafety and Biosecurity Issues in Bangladesh: Strategy for Sustainable Development - **Dr Latiful Bari**, Head Food Safety Laboratory, Center for Advanced Research In Sciences, University of Dhaka, Bangladesh

14:21 – 14:40 Primate containment: Challenges in management - **Dr drh. Joko Pamungkas**, Senior Scientist, Primate Research Center at IPB University, Bogor, Indonesia

14:41 – 15:00 Towards Golden Rice to Brand Rice Nutraceutically Enriched: Some Biosafety Issues - **Dr Jiban Krishna Biswas**, National Consultant, Healthier Rice Programme, International Rice Research Institute, Bangladesh

15:01 – 15:20 Fungal Wheat Blast: An Emerging Food Security Concern in Bangladesh - **Professor Dr. Md Tofazzal Islam**, Director, Institute of Biotechnology and Genetic Engineering, Bangabandhu

