IAI Training Institute on Climate and Health in the Americas University of the West Indies, Kingston, Jamaica November 7 – 18, 2005

Joan L. Aron, Ph.D., Science Program Coordinator Simon R. Young, Ph.D., Applications Program Coordinator

Monday, November 7, 2005

9.00 - 10.30

Opening Ceremony

Dr. Dianna Ashley, Director of the Health Promotion and Protection Division Ministry of Health, Jamaica

Prof. Ronald Young, Dean of the Faculty of Pure and Applied Sciences University of the West Indies, Mona, Jamaica

Dr. Joseph Skobla, Head of the Department of Physics University of the West Indies, Mona, Jamaica

Prof. Anthony Chen, Department of Physics University of the West Indies, Mona, Jamaica

Ms. Celine Leite, Inter-American Institute for Global Change Research

10.30 – 10.45 Coffee Break

10.45 - 12.00

Keynote Lecture

Climate Change, Climate Variability and Weather: Overview Prof. Anthony Chen, Department of Physics University of the West Indies, Mona, Jamaica

12.00 - 12.30

Introduction to Training Institute

Introductions of the coordinators and management staff Overview of timetable, logistics and expectations Introduction of participants 12.30 - 13.30 Lunch

13.30 - 14.30

Climate and Health in Relation to Global Change: Overview *Joan L. Aron, Training Institute Science Program Coordinator*

Natural Hazards, Social Vulnerability, Adaptive Capacity, Early Warning, and Communicating with Decision-Makers: Overview Simon R. Young, Training Institute Applications Program Coordinator

14.30 - 15.30

Participant Presentations (Part I)

15.30 – 15.45 Coffee Break

15.45 - 17.30

Participant Presentations (Part II)

Tuesday, November 8, 2005

Session: Natural Hazards, Early Warning and Social Dimensions

8.30 - 10.30

Climate Change and the Frequency/Severity of Geological and Meteorological Hazards Simon R. Young, Training Institute Applications Program Coordinator

Climate Change Hazards and Emergency Preparedness Don MacIver, Environment Canada

10.30 – 10.45 Coffee Break

10.45 - 12.10

Community-based Natural Disaster Assistance in the Caribbean *Alan Ross, Consultant to USAID (Caribbean Region)*

Roundtable Discussion - Session Lecturers

12.10 - 12.30

Introduction to Training Institute Seed Grant program

Celine Leite, Inter-American Institute for Global Change Research

12.30 – 13.30 Lunch

Session: Diverse Aspects of Climate and Health

13.30 - 15.30

Monitoring and Forecasting Mosquito Abundance and Encephalitis Virus Transmission Risk in California

Forrest Melton, California State University, Monterey Bay & NASA, U.S.A. Chris Barker, University of California, Davis, U.S.A.

Eutrophication, Harmful Algal Blooms and Health in Coastal and Estuarine Systems Under Increasing Climate and Human-Driven Environmental Changes *Gustavo J. Nagy, Universidad de la Republica, Uruguay*

15.30 – 15.45 Coffee Break

15.45 - 17.30

African Dust Clouds Associated with Increased Pediatric Asthma Accident and Emergency Admissions on the Caribbean Island of Trinidad *Michele Monteil, University of the West Indies, St. Augustine, Trinidad*

Stratospheric Ozone Depletion and Human Health Janice Longstreth, Institute for Global Risk Research, U.S.A.

Wednesday, November 9, 2005

Session: Climate and Mosquito-Borne Diseases -- Malaria and Dengue

8.30 - 10.30

The Effect of Climate Variability on Dengue in Mexico Horacio Riojas-Rodriguez, Instituto Nacional de Salud Pública, Mexico

The Effect of Climate Variability on Malaria and Dengue in Venezuela *Yasmin Rubio-Palis, Ministerio de Salud y Desarrollo Social (MSDS)* & BIOMED, Universidad de Carabobo, Venezuela

10.30 – 10.45 Coffee Break

10.45 - 12.30

The Effect of Climate Variability on Malaria in Colombia Guillermo L. Rua, Universidad de Antioquia, Colombia

Moving Average Temperature Index for the Potential Onset of Dengue Epidemics in the Caribbean

Dharmaratne Amarakoon, University of the West Indies, Mona, Jamaica Anthony Chen, University of the West Indies, Mona, Jamaica

12.30 - 13.30 Lunch

13.30 - 15.30

Early Warning Systems for Climate Sensitive Diseases Stephen J. Connor, International Research Institute for Climate Prediction, U.S.A.

Ecohealth Approach to Malaria Control Juan Eugenio Hernandez, Instituto Nacional de Salud Pública, Mexico

15.30 – 15.45 Coffee Break

15.45 - 17.30

Vector-Borne Disease Control Programs in the Americas *TBD: PAHO*

Ecohealth Initiative on Vector-Borne Disease Roberto Bazzani, International Development Research Centre (Canada), Uruguay

Roberto Bazzani will be available in the evenings of November 9/10 to discuss the forthcoming IDRC/Ecohealth solicitation for vector-borne disease projects. The details will be announced at the Training Institute.

Thursday, November 10, 2005

Session: Climate and Mosquito-Borne Diseases -- Malaria and Dengue (cont.)

8.30 - 12.30

Field Trip in Kingston Vicinity on Entomology in Dengue Surveillance and Control Dave Chadee, University of the West Indies, St. Augustine, Trinidad Sherine Huntley, Ministry of Health, Jamaica

12.30 - 13.30 Lunch

13.30 - 15.30

Analyze data collected in the field.

Discuss what was learned in the field trip in the context of climate and disease studies as well as natural hazards responses.

15.30 – 15.45 Coffee Break

15.45 - 17.30

Breakout groups discuss assigned topics on mosquito-borne disease. Breakout groups report in plenary session.

Facilitator: Joan L. Aron, Training Institute Science Program Coordinator

Friday, November 11, 2005

Session: Project Development and Training Institute Seed Grants

8.30 - 10.30

Interdisciplinary Team Formation: NSF Research and Practical Recommendations *Leigh Abts, Johns Hopkins University, U.S.A.*

10.30 – 10.45 Coffee Break

10.45 - 12.30

Breakout groups discuss assigned topics on interdisciplinary challenges and report in plenary session.

Facilitator: Leigh Abts, Johns Hopkins University, U.S.A.

12.30 - 13.30 Lunch

13.30 - 14.30

Review of Climate and Health Projects in the Americas *Marco Alcaraz, Organization of American States*

14.30 - 15.30

Participants form teams to develop proposals for Training Institute Seed Grants. *Facilitators:*

Marco Alcaraz, Organization of American States Leigh Abts, Johns Hopkins University, U.S.A. Joan L. Aron, Training Institute Science Program Coordinator Simon R. Young, Training Institute Applications Program Coordinator

15.30 – 15.45 Coffee Break

15.45 - 17.30

Participants continue to work on proposals in teams and report in plenary on concerns.

<u>Saturday, November 12, 2005</u> Participants interact informally over the weekend.

Sunday, November 13, 2005 Participants interact informally over the weekend.

Monday, November 14, 2005

Session: Natural Disasters and Climate Change – Case Studies

8.30 - 10.30

Caribbean Natural Hazards: Overview Rafi Ahmad, University of the West Indies, Mona, Jamaica

Early Warning Systems and Vulnerability
Allan Lavell, Facultad Latinoamericana de Ciencias Sociales y La Red de Estudios
Sociales en Prevención de Desastres en América Latina-LA RED, Costa Rica

10.30 − *10.45* Coffee Break

10.45 - 12.30

El Niño, Seasonal Climate Forecasts and Monitoring Climate Change *Michael Taylor, University of the West Indies, Mona, Jamaica*

Roundtable Discussion - Session Lecturers

12.30 - 13.30 Lunch

13.30 - 15.30

Computer Lab on Geographic Information Systems and Remote-Sensing Tools for Monitoring Climate Change, Hazard Mapping, Early Warning and Disaster Management *Parris Lyew-Ayee, University of the West Indies, Mona, Jamaica*

Simon R. Young, Training Institute Applications Program Coordinator

15.30 – 15.45 Coffee Break

15.45 - 17.30

The computer lab continues.

Tuesday, November 15, 2005

Session: Natural Disasters and Climate Change – Case Studies (cont.)

8.30 - 12.30

Field Trip on Natural Hazards in the Area of Kingston, Jamaica Rafi Ahmad, University of the West Indies, Mona, Jamaica Simon R. Young, Training Institute Applications Program Coordinator

12.30 – 13.30 Lunch

13.30 - 14.30

Review what was learned in the field trip in the context of natural hazards and communication with decision-makers.

14.30 - 15.30

Participants work on proposals for Training Institute Seed Grants.

15.30 – 15.45 Coffee Break

15.45 – 17.30

Participants work on proposals for Training Institute Seed Grants.

Wednesday, November 16, 2005

Session: Water Security and Quality

8.30 - 10.30

Climate Change and Freshwater Management
Balfour Spence, University of the West Indies, Mona, Jamaica

Climate in Relation to Food and Nutrition Security in Central America

Ana Victoria Roman, Institute of Nutrition of Central America and Panama, PAHO

10.30 − *10.45* Coffee Break

10.45 - 12.30

Water and Health in the Americas *Ana Treasure, PAHO, Jamaica*

Roundtable Discussion - Session Lecturers

12.30 - 13.30 Lunch

13.30 - 15.30

Breakout groups discuss assigned topics on water security and quality and report in plenary session.

Facilitators:

Joan L. Aron, Training Institute Science Program Coordinator Simon R. Young, Training Institute Applications Program Coordinator

15.30 – 15.45 Coffee Break

15.45 - 16.30

Breakout groups continue with reports to plenary session.

16.30 - 17.30

Participants work on proposals for Training Institute Seed Grants.

Thursday, November 17, 2005

8.30 - 10.30

Participants complete and turn in pre-proposals for Training Institute Seed Grants.

10.30 – 10.45 Coffee Break

10.45 - 12.30

Participants discuss plans for full proposals to Training Institute Seed Grants.

12.30 - 13.30 Lunch

13.30 - 13.50

Presentation on Proposal Evaluation
Paul Filmer, U.S. National Science Foundation

13.50 - 15.30

Pre-proposal teams present their proposals in plenary and receive feedback.

Feedback on Pre-proposals for Training Institute Seed Grants *Facilitators:*

Paul Filmer, U.S. National Science Foundation Marcella Ohira, Inter-American Institute for Global Change Research Joan L. Aron, Training Institute Science Program Coordinator Simon R. Young, Training Institute Applications Program Coordinator

15.30 – 15.45 Coffee Break

15.45 - 17.30

Feedback on Pre-proposals for Training Institute Seed Grants (cont.)

Friday, November 18, 2005

8.30 - 10.30

Advice for Full Proposals for Training Institute Seed Grants *Facilitators:*

Paul Filmer. U.S. National Science Foundation

Marcella Ohira, Inter-American Institute for Global Change Research

Joan L. Aron, Training Institute Science Program Coordinator

Simon R. Young, Training Institute Applications Program Coordinator

10.30 − *10.45* Coffee Break

10.45 - 12.30

Participants review ideas about adaptation, early warning, communication to decision-makers and the public at large, bridging across physical and biological hazards. What are the take-home messages?

Facilitators:

Joan L. Aron, Training Institute Science Program Coordinator

Simon R. Young, Training Institute Applications Program Coordinator

12.30 - 13.30 Lunch

13.30 - 15.30

Participants review expectations from the first day. What was successful? What not? Evaluation discussion (Training Institute evaluation forms to be handed out on Nov. 16th and returned on Nov. 17th)

Marcella Ohira, Inter-American Institute for Global Change Research (closed session)

15.30 – 15.45 Coffee Break

15.45 – 16.45

Closing Ceremony

Prof. Trevor Jackson, Director of the Graduate School University of the West Indies, Mona, Jamaica

Prof. Wayne Hunte, Pro-Vice Chancellor for Graduate Studies and Research University of the West Indies, Mona, Jamaica

Prof. Anthony Chen, Department of Physics University of the West Indies, Mona, Jamaica

Ms. Marcella Ohira, Inter-American Institute for Global Change Research