

# EXHIBITS

## UP Diliman Creations and Inventions

### The SOUL of the Internet

- Joshua Arvin S. Lat, Kevin Charles V. Atienza & Rod Xavier R. Bondoc  
Department of Computer Science, College of Engineering

### TraceIT: A Catalyst for Learning for Children with Special Needs

- Dana Elisa G. Nicolas, Rosemarie P. Manago & Adrian A. Angeles  
Department of Computer Science, College of Engineering

### Underwater Pharmaceuticals

- Cynthia P. Saloma, PhD  
National Institute of Molecular Biology and Biotechnology, College of Science

### Light for Data Storage: Increasing the Fidelity of Holograms

- Percival F. Almoro, PhD  
National Institute of Physics, College of Science

### A Leap Forward for Science: Learning while Playing

- Rowel O. Atienza, PhD  
Electrical and Electronics Engineering Institute, College of Engineering

### UP Structural Biology Research: Analyzing Biomolecules through their Structures

- Neil Andrew D. Bascos, PhD  
National Institute of Molecular Biology and Biotechnology, College of Science

### Landslides, Mudslides, and Avalanches: Capturing Large-scale Events in Table-top Setups

- Christopher P. Monterola, PhD & Jesus Felix Valenzuela, PhD
- Anthony G. Longjas, PhD & Christopher P. Monterola, PhD
- Rene C. Batac, PhD; Marissa G. Pastor, PhD; Johnrob Y. Bantang, PhD & Christopher P. Monterola, PhD
- Johnrob Y. Bantang, PhD; Marissa G. Pastor, PhD; Marko Arciaga, PhD; Rene C. Batac, PhD & Christopher P. Monterola, PhD  
National Institute of Physics, College of Science

### Wind Generator System: Simpler is Better

- Miguel T. Escoto, Jr., Niño Christopher B. Ramos, Adrian Jay A. Virata & Emmanuel Brian P. Arceo  
Electrical and Electronics Engineering Institute, College of Engineering

### The Oil-Eating Bacteria

- Cynthia T. Hedreyda, PhD  
National Institute of Molecular Biology and Biotechnology, College of Science

### The MICROLAB

- Louis P. Alarcon, PhD  
Electrical and Electronics Engineering Institute, College of Engineering

### There's Fuel in Wastewater Algae

- Wilberto D. Monotilla, PhD  
National Institute of Molecular Biology and Biotechnology, College of Science

## UP Diliman R&D Partners

- Advanced Science and Technology Institute
- Bureau of Agricultural Research
- Industrial Technology Development Institute
- Metals Industry Research and Development Center
- National Research Council of the Philippines
- Philippine Council for Industry, Energy and Emerging Technology Research and Development
- United States Agency for International Development

Online pre-registration for this event is open. Please email [lloyd.adducul@gmail.com](mailto:lloyd.adducul@gmail.com) with the following information: attendee's name, sector (e.g. faculty, REPS, graduate student, undergraduate student, etc.), and College/Unit Department.  
Students are also requested to indicate their degree program and faculty adviser.

For updates and details about the Colloquium and Fair, you may visit the OVCRD website (<http://www.ovcrd.upd.edu.ph>), call 927-2568/436-8720/981-8500 local 4048 or email [rduo.ovcrd@up.edu.ph](mailto:rduo.ovcrd@up.edu.ph)



PALIWAN NGAN  
SA LIBRARIAN  
DILIMAN

Third time's the charm!  
OVCRD COLLOQUIUM AND FAIR 2012

*This serves as an invitation*

5 SEPTEMBER 2012

8:00AM - 5:00PM

NATIONAL INSTITUTE OF PHYSICS

NATIONAL SCIENCE COMPLEX

UNIVERSITY OF THE PHILIPPINES DILIMAN

# P R O G R A M

- 8:00 – 8:30 AM Registration
- 8:30 – 8:35 AM National Anthem
- Opening Remarks  
Prof. Benito M. Pacheco, PhD  
Vice-Chancellor for Research and Development, UP Diliman
- 8:35 – 8:45 AM Message  
Prof. Caesar A. Saloma, PhD  
Chancellor, UP Diliman
- 8:45 – 10:15 AM Session 1: *Mitigating Health and Environmental Hazards*  
Expression, purification and characterization of the *Plasmodium falciparum* merozoite surface protein 1 (MSP1) block 2 variants
- Denise Mirano-Bascos, PhD  
National Institute of Molecular Biology and Biotechnology  
College of Science
- Testing the effectiveness of coral spat seeding as reef restoration tool
- Ronald D. Villanueva, PhD  
Marine Science Institute, College of Science
- Geometric morphometrics, DNA barcoding, genetic diversity, and length-weight relationships of sea catfishes (*Siluriformes: Ariidae*) from Laguna de Bay, Philippines
- Jonas P. Quilang, PhD  
Institute of Biology, College of Science
- Structurally controlled landslides: Recent examples from Guinsaugon and Little Kibungan, Philippines
- Sandra G. Catane, PhD & Hillel B. Cabria  
National Institute of Geological Sciences, College of Science
- OPEN FORUM  
Moderator: Lourdes M. Portus, PhD  
Department of Communication Research  
College of Mass Communication
- 10:15 – 10:30 AM Coffee Break / Viewing of EXHIBITS
- 10:30 AM – 12:15 PM Session 2: *Seeking New Perspectives, Pursuing Innovative Ideas*  
The excavation of the old town of San Juan, Batangas
- Grace Barretto-Tesoro, PhD  
Archaeological Studies Program
- Wittgenstein's misunderstood religious thought
- Earl Stanley B. Fronda, PhD  
Department of Philosophy, College of Social Sciences and Philosophy
- Generation of recombinant integrin subunit fusion proteins for biophysical analysis
- Neil Andrew D. Bascos, PhD  
National Institute of Molecular Biology and Biotechnology  
College of Science
- Primal-dual active set methods with central tendencies in the inactive set
- Marrick C. Neri, PhD  
Institute of Mathematics, College of Science
- Multigrid optimization schemes for solving control- and state-constrained elliptic optimal control problems
- Michelle C. Vallejos, PhD  
Institute of Mathematics, College of Science
- OPEN FORUM  
Moderator: Henry J. Ramos, PhD  
OVCRD/National Institute of Physics, College of Science
- 12:15 – 12:30 RAFFLE of UPD publications: 5 sets print publications & 1 set pre-loaded in tablet computer
- 12:30 – 1:15 PM Lunch Break / Viewing of EXHIBITS
- 1:15 – 2:30 PM Session 3: *Delineating the Nuances of Philippine Politics and Governance*  
A cultural biography of overseas contract work: Migration, narration, standpoint
- Odine Maria M. de Guzman, PhD  
Department of English and Comparative Literature  
College of Arts and Letters
- Framing the population debate: A comparison of source and news frames in the Philippines
- Clarissa C. David, PhD  
Graduate Studies Department, College of Mass Communication
- A study on the institutionalization of people's involvement in disaster management by LGUs in two barangays in Metro Manila
- Leticia S. Tojos, PhD  
Research and Extension for Development Office  
College of Social Work and Community Development
- OPEN FORUM  
Moderator: Tina S. Clemente, PhD  
Asian Center
- 2:30 – 2:45 PM Coffee Break / Viewing of EXHIBITS
- 2:45 – 4:30 PM Session 4: *Promoting the Welfare of Children, Youth and Women*  
Detection of *Angiostrongylus cantonensis* and other nematodes in Metro Manila populations of *Achatina fulica* using the SSU rRNA gene
- Ian Kendrick C. Fontanilla, PhD  
Institute of Biology, College of Science
- The development of class management and visualization system for mobile educational games
- Rowel O. Atienza, PhD  
Electrical and Electronics Engineering Institute, College of Engineering
- Y-STR DNA analysis of 154 female child sexual assault cases in the Philippines
- Minerva S. Sagum  
Natural Sciences Research Institute, College of Science
- Communication variables that influence the job retention and attrition of call center agents in Makati and Cebu
- Niel Kenneth F. Jamandre  
Department of Speech Communication and Theatre Arts  
College of Arts and Letters
- Support system of female managers in Philippine quick-service restaurants
- Lilibeth J. Baylosis  
Department of Hotel, Restaurant and Institution Management  
College of Home Economics
- OPEN FORUM  
Moderator: Odine Maria M. de Guzman, PhD  
Department of English and Comparative Literature  
College of Arts and Letters
- 4:30 – 4:45 PM RAFFLE of UPD publications: 5 sets print publications & 1 set pre-loaded in tablet computer
- 4:45 – 5:00 PM Closing Remarks  
Prof. Benito M. Pacheco, PhD  
Vice-Chancellor for Research and Development