

12 June 2021

GIOVANNI A. TAPANG, PhD
Dean
College of Science
UP Diliman

Attention: Dr Ma. Nerissa Masangkay Abara (Chair, Search Committee for IESM
Director)

Dean Tapang,

It is with great honor and humility that I am accepting this nomination as the next director of the Institute of Environmental Science and Meteorology (IESM). If selected, I affirm my willingness to serve as director for the 3-year term. I have attached my abridged *curriculum vitae* and my vision/program statement for the 3-year term.

Thank you.

Sincerely,


CHERRY L. RINGOR, PhD
Professor
IESM

ABRIDGED CURRICULUM VITAE

Cherry L. Ringor, Ph.D.

Professor
Institute of Environmental Science and Meteorology
University of the Philippines – Diliman
Email: clringor@up.edu.ph



EDUCATION

Ph.D. in Earth Science (2004)
Kanazawa University, Ishikawa, Japan

M.S. Geology (2000)
University of the Philippines-Diliman

B.S. Geology (1995)
University of the Philippines-Diliman

PROFESSIONAL EXPERIENCE POST-PhD (2004-present)

Professor 5 (January 2019-present)
Associate Professor 6 (January 2014 – December 2018)
Associate Professor 1 (June 2010 - December 2013)
Assistant Professor 6 (June 1, 2008 – June 2010)
Institute of Environmental Science and Meteorology
University of the Philippines - Diliman

Post Doctoral Researcher (December 1, 2006 – March 30, 2008)
Nanoionics Material Group, Fuel Cell Materials Center
National Institute for Materials Science, Namiki, Tsukuba, Japan

Technical Staff (May 15, 2006 – November 30, 2006)
Fullerene Engineering Group, Advanced Nano Materials Laboratory
National Institute for Materials Science, Namiki, Tsukuba, Japan

Research Associate (November 8, 2004- March 31, 2006)
Environmental Mineralogy Laboratory
Kanazawa University, Kakuma, Kanazawa, Japan

ADMINISTRATIVE POSITION

IESM Deputy Director for Academic Affairs (August 2018-present)

Assistant Director, IESM (June-July 2015)

Chair, IESM Academic Affairs (June 2009-May 2015)

RESEARCH PROJECTS (as Project Leader)

| Title | Start Date (MM/DD/YYYY) | End Date (MM/DD/YYYY) | Funds (Php) | Funding Agency |
|--|----------------------------|--------------------------|----------------|------------------------|
| Portable Potable Water Equipment for Disasters and Emergencies Project (PWEDE) | 1/03/2018 | 4/2/2019 | 11,829,572.0 | TECHNICOM TAPI-DOST |
| Coastal Stability (Coral Reef Visualization and Assessment Program) | 1/15/2014 | 06/30/2018 | 4,924,765.60 | DENR |
| Synthesis, Morphology and Chemical Modifications of Fullerene-Based Nanomaterials for Nano-engineered Structural Materials and Optoelectronic Applications | 02/15/14 | 02/14/2015 | 4,922,760.90 | PCIEERD-DOST |

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|--|------------|------------|------------|-----------|
| Reconstructing historical flood events from massive corals | 01/01/2012 | 12/31/2012 | 535,570.88 | NSRI-UPD |
| Coral Assemblages in Modern and Uplifted Reef Terraces from Pamilacan Island, Bohol | 01/01/2011 | 12/31/2011 | 443,718.00 | NSRI-UPD |
| Fullerene Nanowhisker/Nanotube – Polyaniline Nanocomposite | 11/15/2010 | 11/14/2011 | 300,000.00 | OVCRD-UPD |
| Sea surface temperature variability during high sealevel stands recorded by Porites corals from Bohol, Philippines | 01/01/2010 | 12/31/2010 | 449,718.00 | NSRI-UPD |

SELECTED PUBLICATIONS (2008-present)

Book Chapter

2019. **Cherry L. Ringor**, Katherine M. Calamba, Chelo S. Pascua, Kun'ichi Miyazawa. Morphological Controls of Fullerene Nanowhiskers and Nanotubes. In Kun'ichi Miyazawa, Yuichi Ochiai, Masaru Tachibana, Tokushi Kizuka, Shigeo Nakamura Eds. Fullerene Nanowhiskers, 2nd Edition Pan Stanford <https://www.routledge.com/Fullerene-Nanowhiskers-2nd-Edition/Miyazawa-Ochiai-Tachibana-Kizuka-Nakamura/p/book/9789814774871>

Research Articles

2020. Fernan T. Fiegalan, **Cherry L. Ringor**, Tolentino B. Moya. Incorporation of rice residues through tillage enhances soil organic matter accumulation in rice land. Philippine Journal of Science, 149(4):1039-1048. <https://philjournalsci.dost.gov.ph/57-next-issue/1252-philippine-journal-of-science-vol-149-no-4-december-2020>
2019. Jancel Carlo B. Villanueva, **Cherry L. Ringor**, Chelo S. Pascua, Kun'ichi Miyazawa. Size, structure, and conductivity of plant oil-derived carbon nanospheres synthesized by atmospheric ionization CVD. Materials Chemistry and Physics, 225, 84-90. <https://doi.org/10.1016/j.matchemphys.2018.12.062>
2017. **Cherry L. Ringor**, Chelo S. Pascua, Jancel Carlo B. Villanueva, Alexis Karla H. Garcia, Ian Jasper A. Agulo, Yoshitaka Matsushita and Kun'ichi Miyazawa. Multiwalled carbon nanofibers and nanocapsules synthesized from plant oil via catalyst-free atmospheric CVD process. Journal of Nanoscience and Nanotechnology, 17, 3543-3550. <https://www.ingentaconnect.com/content/asp/jnn/2017/00000017/00000005/art00123>
http://www.aspbs.com/jnn/contents_jnn2017.htm
2017. Fernan T. Fiegalan, **Cherry L. Ringor**, Tolentino B. Moya. Collembola Inoculation in Soil Incorporated Mango Leaf Litter Enhances Decomposition for Organic Matter Building and Nutrient Banking, International Journal of Science and Research, IJSR Archive Volume 6 Issue 10 October 2017. https://www.ijsr.net/archive/v6i10/v6i10_01.php
2016. **Cherry Ringor** and Fernando Siringan. Net Sediment Transport in Pampanga Bay, Northwestern Manila Bay Derived from Grain Size Trends, Bathymetric Change, and Landsat Data. The Philippine Agricultural Scientist, 99(1), 68–79. <https://pas.cafs.uplb.edu.ph/2016/march-2016-vol-99-no-1/>
2015. Katherine Calamba, **Cherry Ringor**, Chelo Pascua, and Kun'ichi Miyazawa. Pleated Surface Morphology of C60 Fullerene Nanowhiskers Incorporated by Polyaniline in N-Methyl-2-Pyrrolidone. Fullerenes, Nanotubes and Carbon Nanostructures, 23(8), 709-714. <https://www.tandfonline.com/doi/full/10.1080/1536383X.2014.971118>
2009. **Cherry L. Ringor** and Kun'ichi Miyazawa. Fabrication of solution grown C60 fullerene nanotubes with tunable diameter. Journal of Nanoscience and Nanotechnology, 9(11), 6560-6564. <https://www.ingentaconnect.com/contentone/asp/jnn/2009/00000009/00000011/art00045>
<http://www.aspbs.com/jnn/>
2009. Hideaki Kitazawa, Kenjiro Hashi, Tuerxun Wuernisha, Kayoko Hotta, **Cherry L. Ringor**, Takao Furubayashi, Atsushi Goto, Tadashi Shimizu, and Kun'ichi Miyazawa. Molecular dynamics and structural phase transition in C60 nanowhiskers. Journal of Physics: Conference Series, 159: 012022. <https://iopscience.iop.org/article/10.1088/1742-6596/159/1/012022>
2008. **C. L. Ringor** and K. Miyazawa. Synthesis of C60 nanotubes by liquid-liquid interfacial precipitation method: influence of solvent ratio, growth temperature, and light illumination. Diamond and Related Materials 17, 529-534. <https://www.sciencedirect.com/science/article/pii/S0925963507004104>
2008. **Cherry L. Ringor** and Kun'ichi Miyazawa. High yield preparation of fullerene nanowhiskers and nanotubes by the solution route. NANO: Brief Reports and Reviews 3(5), 329–333. <https://www.worldscientific.com/doi/10.1142/S1793292008001155>
2008. K. Miyazawa, S. Cha, **C. Ringor**, J. Okuda, A. Taniguchi, M. Watanabe, M. Tachibana, and J. Minato. Synthesis of fullerene nanotubes and microtubes for materials storage, delivery and recovery. NANO: Brief Reports and Reviews 3(5), 335–339. <https://www.worldscientific.com/doi/10.1142/S1793292008001167>
2008. Kun'ichi Miyazawa, **Cherry Ringor**, Koehi Nakamura, Masaru Tachibana, Kazuma Saito, and Tokushi Kizuka. Structural analysis of C60 nanotubes heat-treated in vacuum. The Institute of Electrical Engineers of Japan, IEEJ Transactions on Sensors and Micromachines 128(8), 317-320. <https://doi.org/10.1541/ieejsmas.128.317>
2008. Mingsheng Xu, Y Pathak, Daisuke Fujita, **Cherry Ringor** and Kun'ichi Miyazawa. Covered conduction of individual C60 nanowhiskers. Nanotechnology 19(7), 075712. <https://iopscience.iop.org/article/10.1088/0957-4484/19/7/075712/meta>
2008. Kun'ichi Miyazawa and **Cherry Ringor**. Platinum chloride deposition into C60 nanotubes. Materials Letters 62, 410-413. <https://www.sciencedirect.com/science/article/pii/S0167577X07005605>

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MENTORING COMPETENCE (As Adviser/co-Adviser)

| Students and Thesis Title | Role/Degree Program | Date Graduated |
|--|--|-----------------------------------|
| Dominique Sasha N. Amorsolo <i>Analyzing the Changing Morphology of the Lower Abra River and the Adaptations of the Deltaic Community of Santa, Ilocos Sur: A Geo-Historical Perspective</i> | Adviser MS Environmental Science | 1 st Sem AY 2020-21 |
| Fernan Fiegalan <i>Collembola inoculation in soil incorporated mango leaf litter enhances decomposition for organic matter building and nutrient banking</i> | Adviser PhD Environmental Science | 1 st Sem AY 2020-21 |
| Abel T. Lagon <i>A multi-criteria spatial decision support tool for flood risk management in Quezon City, Philippines</i> | Adviser MS Environmental Science | 2 nd Sem AY 2018-19 |
| Astrid Korina S. Gabo <i>Beach volume response and recovery from storms along the siliciclastic coastline of Nasugbu Bay, Batangas</i> | Adviser MS Environmental Science | 2 nd Sem AY 2017-18 |
| Ma. Rebecca S. Soriano <i>Enhancing flood models by incorporating the effect of suspended sediment load</i> | Co-Adviser MS Environmental Science | Midyear AY 2016-17 |
| Jancel Carlo B. Villanueva <i>Size Control of Carbon Nano Sphere Growth in a Non-Catalytic, Vertically-Aligned Ionization Chemical Vapor Deposition using "Bitaog" Oil Precursor</i> | Co-Adviser MS Materials Science and Engineering | Midyear AY 2016-2017 |
| Cyndi S. Ignacio <i>Semi-Automated Tide Correction Technique for In-situ and Satellite-Derived Shorelines: A Case Study of Super Typhoon Haiyan-Induced Coastal Erosion in Small Island Systems of Boracay and Bantayan</i> | Adviser MS Environmental Science | Midyear AY 2014-2015 |
| Michelle T. Manglicmot <i>The Linear Extension Rates of the Massive Coral Porites spp. from the Philippines: Environmental Controls, Spatio-Temporal Trends and Implications</i> | Co-Adviser MS Environmental Science | 2 nd Sem AY 2014-15 |
| Noreen Marie G. Folloso <i>Sediment Accumulation in Monospecific Rhizophora Plantations</i> | Co-Adviser MS Environmental Science | 2 nd Sem AY 2014-15 |
| Katherine M. Calamba <i>Morphology and Surface Modification of C60 Fullerene nanowhiskers by the Incorporation of Polyaniline in N-Methyl-2-Pyrrolidone</i> | Co-Adviser MS Materials Science and Engineering | 1 st Sem AY 2011-12 |
| Ma. Carmela T. Garcia <i>Effects of Kaolinite Particle Size and Sintering Temperature on the Porosity of Mullite-based Porous Ceramics</i> | Co-Adviser MS Materials Science and Engineering | 2 nd Sem AY 2011-12 |
| Armida V. Gillado <i>A Novel Nontronite Based-Polyaniline Free - Standing Conductive Nanocomposite Film</i> | Co-Adviser MS Materials Science and Engineering | 2 nd Sem AY 2011-12 |

SELECTED EXTENSION AND COMMUNITY SERVICE

Trainer, NSC-MSI Training on Beach Erosion, 2-4 & 28-30 June 2021, via Zoom

Trainer, DOST-PCAARRD Training on Coastal Erosion Management, 26-29 November 2019, PCAARRD, Los Baños, Laguna

Mentor, Philippine Science High School System Science Immersion Program, 2-15 July 2019, IESM, UP Diliman

Manuscript Reviewer, Carbon (Elsevier), November 2018

Reviewer of research proposal for funding, OVCRD-UPD, February 2018

Resource Speaker, 6th Annual Convention of the Science Circle of the Philippines, Orchid Garden Suites, Malate, Manila, August 2017

Chair, Organizing Committee, 4th MOVE (Materials of Value and Essence) Symposium, IESM, UP Diliman, 29-30 July 2015

Resource Person, General Membership Meeting, Philippine Green Building Council, 26 March 2014

Member, Scientific Advisors, Guimaras Provincial Office, 2011-2012

Chery L. Riego

Plans for the Three-Year Term as IESM Director

My three-year plan is anchored on the objectives of the Institute, which are the following:

1. To develop competent manpower for careers in environmental and atmospheric science (meteorology), research, education and public service to fill the need for highly trained scientists in government, private industry and educational institutions;
2. To provide quality graduate academic programs and advanced research capability in the environmental science and meteorology;
3. To strengthen the IESM role as the university component of the Regional Meteorological Training Center (RMTC) Area V of the World Meteorological Organization;
4. To serve as the incubator for the development of new projects, technologies and help formulate policies that concern the protection, conservation, and management of the environment and its resources;
5. To provide technical services to government agencies, industry, private institutions, and other stakeholders;
6. To develop linkages with national and international institutions, and;
7. To promote the holistic and integrated approach in addressing environmental problems and issues.

As shown in the reports of the previous Directors, IESM has already successfully accomplished the first six objectives in the past years despite being a small unit, resource-wise. This is a testament to the leadership of the past Directors and how individual faculty have persevered in achieving these objectives. My role as the incoming Director is to sustain these accomplishments, and to implement Objective 7 in a manner that is measurable during my tenure as the Director of IESM.

I have been with IESM since June 2008 and have experienced to move from one building to the next. Now that we have our own home, my vision for IESM is to be a model of environmental sustainability in the UP Diliman campus by increasing water

and energy efficiency, while curtailing wastage (i.e. *green building* principles). I believe that this ties up well with Objective 7 and can be implemented within the three-year term. It is a vision to drive action towards greater inclusion and attitude / perspective change in students, administrative staff, faculty, alumni, university, private sector, and other stakeholders.

The following are my specific plans in terms of teaching, research, and extension and public service:

- Teaching
 - Undergo internal and external academic reviews for competitiveness
 - Recruit more faculty
 - Improve PhD students recruitment and graduation
 - Preparation for face-to-face instruction for laboratory and thesis students specific for pandemic event(s)
- Research
 - Strengthen research collaboration within the institute
 - Innovations through novel user-inspired research
- Extension and Public Service
 - Expanded participation in scientific organizations and associations
 - Establish an annual IESM research symposium dedicated to reach out to senior high school and undergraduate students
 - Engagement in *green building* principles (i.e. LEED)