

Curriculum Vitae

RAYMOND PATRICK R. MAXIMO

Science Research Specialist II

PHILIPPINE INSTITUTE OF VOLCANOLOGY AND SEISMOLOGY

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FIELDS OF INTERESTS

Volcanology, isotope geochemistry, igneous petrology,

Hydrothermal Systems, Disaster risk management and

mitigation

EDUCATIONAL BACKGROUND

<i>Docteur en Sciences</i> , 2020	Geology/Geochemistry, Université libre de Bruxelles, Brussels, Belgium
M.S., 2011	Geology, Northern Illinois University, DeKalb IL
Post graduate, 2003	Management of Geological Risks, University of Geneva, Switzerland
B.S. 1999	Geology, University of the Philippines- Diliman

PROFILE

- Competent in operating X-ray Fluorescence Spectrometer (XRF) for analyzing rock, mineral, and water samples
- Exposure and training in Scanning Electron Microscope (SEM), for rock, and mineral sample analyses and interpretation
- Exposure and training in Secondary Ion Microprobe Spectroscopy, for analyzing non-terrestrial materials such as planetary dust and solar wind particles.
- Ability in preparing grain mount samples for mineral separate analyses.
- Efficient and reliable in managing laboratories
- Exceptional ability in plane and polarized light microscope analyses
- Effective communication skills, speaking and writing in English and Filipino
- Exceptional adaptation skills and flexibility to diverse multi-cultural background.
- Relevant knowledge in computer software applications such as MapInfo 7, Adobe Photoshop, Microsoft Office Suite 2007, Basic Dreamweaver 4 and HTML Programming skills (for website development).

PROFESSIONAL EXPERIENCE

- Science Research Specialist II, Philippine Institute of Volcanology and Seismology, February, 2014 – present
- Section Head, Volcano Geology, Geochemistry, Geophysics Research and Development, Philippine Institute of Volcanology and Seismology, February, 2014 – May 2015
- Graduate Teaching Assistant, Northern Illinois University, Fall 2007 – 2013
- Science Research Specialist 1, Philippine Institute of Volcanology and Seismology, April 2002 – January 2014

- University Research Associate 1, University of the Philippines-Diliman, July 1999 – December 2001

Ph. D. DISSERTATION

Geochemical and isotopic characterization of hydrothermal systems of active volcanoes in the Philippines. Département Géosciences, Environnement et Société, Université libre de Bruxelles, Brussels, BELGIUM. September 27, 2019.

M.Sc. THESIS

Composition and Volatile (S and Cl) contents of lavas and tephra from Mayon Volcano, Philippines. Department of Geology and Environmental Geosciences, Northern Illinois University, Dekalb, IL, USA. December 2011.

PUBLICATION

R.P.R. Maximo, A. Bernard, K. Maussen, E. Joiris, and R.R.R. Rebadulla. Geochemical studies of thermal waters from Kanlaon Volcano, Negros Island, PHILIPPINES. *J.Volcanol. Geotherm. Res.* 374 (2019) 39-51.

CO-AUTHORED PUBLICATION

K. Maussen, E. Villacorte, R.R.R. Rebadulla, **R.P.R. Maximo**, V. Debaille, M.A. Bornas and A. Bernard. Geochemical characterization of Taal volcano-hydrothermal system and temporal evolution during continued phases of unrest (1991-2017). *J.Volcanol. Geotherm. Res.* 352 (2018) 38-514

T.A. Vogel, M T.P. Flood, L.C. Patino, S. Wilmot, **R.P.R. Maximo**, C.B. Arpa, C.A. Arcilla and J. A. Stimac, Geochemistry of silicic magmas in the Macolod Corridor, SW Luzon, Philippines: evidence of distinct mantle-derived crustal sources for silicic magmas (2006). *Contrib. Mineral. Petrol* 151: 267-281.

SCIENTIFIC PRESENTATIONS

- **R.P.R. Maximo**, A. Bernard, K. Maussen, R.R.Rebadulla, E.B.Bariso and D. Fernandez. Insights into the magmatic-hydrothermal activity using major and trace elements and isotopic values of thermal spring waters from active volcanoes in the Philippines. IAVCEI General Assembly, Portland, OR, USA. August 14-18, 2017. (*Poster Presentation*)
- **R.P.R. Maximo**, and J. A. Walker, Major Element, Sulfur and Chlorine Compositions of Olivine-hosted Melt Inclusions from Mayon Volcano, Philippines. Abstracts with Program of the 46th Annual Meeting North Central Section of the Geological Society of America, Dayton, Ohio, USA. April 23-24, 2012. (*Oral presentation*)
- **R.P.R. Maximo**, and J. A. Walker, Composition and Volatile Contents of Melt Inclusions from Mayon Volcano, Philippines. *Proceedings and Abstract Volume*, The Annual Fall Meeting, American Geophysical Union, Moscone Center, San Francisco, California, USA. December 13-17, 2010. (*Poster Presentation*)
- **R.P.R. Maximo**, M.C.B. Arpa and J.S. Perez, Petrography and Geochemistry of the Lava Flow from the July to October 2006 eruption of Mayon Volcano, Philippines. Abstracts with Program of the 42nd Annual Meeting North Central Section of the Geological Society of America, Rockford, Illinois, USA. April 2-3, 2009. (*Poster Presentation*)
- **R.P.R. Maximo**, C.A. Arcilla, L.C. Patino, T.A. Vogel, T.P. Flood, and M.C.B. Arpa, The Geochemistry of Silicic Domes in the Macolod Corridor, Philippines. *Proceedings of the XXIII General Assembly*, International Union of Geodesy and Geophysics, Royton Sapporo, Hokkaido, Japan. June 30 – July 11, 2003. (*Poster Presentation*)

CO-AUTHORED POSTER PRESENTATIONS

- G.M. Besana, J.A. Daligdig, N.M. Tuñgol, M.I.T. Abigania, B.J.T. Punongbayan, **R.P.R. Maximo** and M. Ando, The 2003 Earthquake along the Masbate Fault, Philippine Fault Zone, Philippines: Slow Earthquake? *Proceedings and Abstract Volume*, International Symposium on Slow Slip Events at Plate Subduction, Nagoya University, Japan. March 10-18, 2004.
- M.S. Wilmot, T.P. Flood, L.C. Patino, T.A. Vogel, C.B. Arpa, C.A. Arcilla and **R.P.R. Maximo**, Explosive and Effusive Silicic Magmatism in the Macolod Corridor, Luzon Islands, Philippines. *Proceedings and Abstract Volume*, The Annual Fall Meeting, American Geophysical Union, Moscone Center, San Francisco California, USA. December 8-12, 2003.
- C.A. Arcilla, **R.P.R. Maximo**, L.C. Patino, T.A. Vogel, M. Flower, and S. Mukasa, High-Nb Lavas from Northern Palawan: implications for high field strength enrichment in southern Philippine Arc. *Proceedings and Abstract Volume*, Joint Assembly of EGS-AGU-EUG, Nice, France. April 6-11, 2003.
- M.A.V. Bornas, N.M. Tuñgol, **R.P.R. Maximo**, M.L.P. Melosantos, M.H.T. Mirabueno, D.V. Javier, E.G. Corpuz, E. Dela Cruz, A. Ramos, J. Marilla and E. Villacorte, Caldera-Rim Breach and Lahar from Mt. Pinatubo, Philippines: Natural Breaching and Resulting Lahar. *Proceedings of the XXIII General Assembly*, International Union of Geodesy and Geophysics, Royton Sapporo, Hokkaido, Japan. June 30 – July 11, 2003.
- M.A.V. Bornas, N.M. Tuñgol, **R.P.R. Maximo**, M.L.P. Melosantos, M.H.T. Mirabueno and D.V. Javier, The 10 July 2002 Pinatubo Crater Lake breakout: Preliminary fieldwork results. *Geocon 2002 Programme and Abstract Volume*, 15th Annual Convention of the Geological Society of the Philippines, PHIVOLCS Auditorium, Diliman, Quezon City, PHILIPPINES. December 4-6, 2002.
- T.P. Flood, L.C. Patino, T.A. Vogel, C.A. Arcilla, J.A. Stimac, **R.P.R. Maximo**, M.C.B. Arpa, The Origin of Silicic Domes in the Macolod Corridor, Philippines. *The Annual Fall Meeting Proceedings*, American Geophysical Union Fall Meeting, Moscone Center, San Francisco, California, USA. December 6-10, 2002.

SEMINARS AND CONFERENCES ATTENDED

- The IAVCIE Scientific Assembly, International Association of Volcanology and Chemistry of the Earth's Interior, Portland, OR, USA. August 14-18, 2017.
- The Annual Geological Convention of the Geological Society of the Philippines, Dusit Thani Hotel, Makati City, Philippines, December 13-14, 2016
- The 46th Annual Meeting North Central Section of the Geological Society of America, Dayton, Ohio, USA. April 23-24, 2012.
- The Annual Fall Meeting, American Geophysical Union, Moscone Center, San Francisco California, USA. December 13-17, 2010
- The 42nd Annual Meeting North Central Section of the Geological Society of America, Rockford, Illinois, USA. April 2-3, 2009
- Secondary Ion Microprobe Spectroscopy training, University of California Los Angeles, Los Angeles, California, USA. February 16-20, 2009
- The Annual Fall Meeting, American Geophysical Union, Moscone Center, San Francisco California, USA. December 15-19, 2008
- Short Course in Minerals, Inclusions and Volcanic Processes, Mineralogical Society of America, San Francisco, California, USA. December 13-14, 2008
- The XXIII General Assembly of the International Union of Geodesy and Geophysics, Sapporo, Hokkaido, Japan. June 30 – July 11, 2003
- Study and Management of Geological Risks, University of Geneva, Switzerland. April 28 – June 19, 2003.
- The Annual Fall Meeting, American Geophysical Union, Moscone Center, San Francisco California, USA. December 10-14, 2001
- The Philippine Mineral Industry Revitalization Workshop, Mapua Institute of Technology, Intramuros, Manila. October 17, 2001.
- Marine Geophysics Lecture of Prof. Eiichi Honza, National Institute of Geological Sciences, June 20-23, 2001.

- Geological Society of the Philippines' GEOCON 2000, Manila Galleria Suites, December 8, 2000.
- 2000 National Institute of Geological Sciences Research Symposium, University of the Philippines, November 23-24, 2000.
- Prof. Xavier Le Pichon Lectures and Symposium on the Geodynamics of Sundaland, University of the Philippines March 6-7, 2000.
- Joint Meeting on Comparative Studies of Island-Arc Seismicity and Volcanism in the Western Pacific Region, PHIVOLCS, Philippines, February 16-18, 1999.