

Buenos Aires, 13 January 2019

Professor Setsuya Nakada Chair, IAVCEI Election Committee

Dear Prof. Nakada,

I am writing this letter to nominate Dr. Lizzette A. Rodríguez as a candidate for IAVCEI Executive Committee Member (2019-2023). Dr. Rodríguez is Associate Professor and Director of the Department of Geology at the University of Puerto Rico, and a prominent and recognized Latin American volcanologist, with more than 15 years in this field and several scientific publications and conference presentations.

I had the opportunity to meet and work together with Dr. Rodríguez within the framework of the activities she carries out as a member of IAVCEI and the Latin American Association of Volcanology (ALVO, in Spanish), witnessing her deep passion and commitment to the development of volcanology. Dr. Rodríguez has had an active participation in the Commission on the Chemistry of Volcanic Gases (CCVG) of IAVCEI, being strongly involved in the activities and the development of this commission during recent years. In the framework of the ALVO, we have worked together in the Executive Committee, where Dr. Rodríguez excelled as one of the most active and committed volcanologists of the association in Latin America, occupying various positions in the Committee until her current position as (ex-officio) President. Among the most outstanding achievements during her time as President of ALVO (2017-18), we can mention the close relationship generated between ALVO and IAVCEI, for the benefit of both associations and fundamentally for the development of volcanology in the region.



According to the above mentioned, Dr. Rodríguez considers that IAVCEI should continue working to become a more open, democratic, inclusive and prosperous association. She believes that IAVCEI has the obligation to guarantee a sustainable growth of volcanology, and through a close relationship with its members, also the obligation to identify the needs and requirements that the population has from the volcanologists, to guide the development of our discipline for the benefit of the people.

This type of responsible, passionate and committed leadership is what we need to face the challenges that arise and to push IAVCEI forward, and that is why I would like to nominate Dr. Lizzette Rodríguez as a candidate for IAVCEI EC member for the 2019-2023 period.

Sincerely,

Dr. Mariano Agusto ALVO President (2019-2020) IAVCEI member

GESVA-Grupo de Estudio y Seguimiento de Volcanes Activos IDEAN - Instituto de Estudios Andinos "D. Pablo Groeber" Departamento de Ciencias Geológicas Facultad de Ciencias Exactas y Naturales Universidad de Buenos Aires – ARGENTINA e-mail: magusto@gl.fcen.uba.ar







UNIVERSIDAD DE PUERTO RICO GEOLOGÍA RECINTO UNIVERSITARIO DE MAYAGÜEZ

January 14, 2019

Prof. Setsuya Nakada Chair IAVCEI Election Committee

Re: Statement of acceptance of nomination

Dear Dr. Nakada:

It is my pleasure to accept the nomination to be a candidate for Member of the IAVCEI Executive Committee during the coming elections. I would like to express my commitment to continue to work towards the objectives of the Association, especially after serving as a Member of the IAVCEI EC during the past 3.5 years.

I have been a member of IAVCEI since 2000 and have had the opportunity to participate in several of the Scientific Assemblies and Cities on Volcanoes conferences in the past 18 years, which have been unique experiences. I was part of the Scientific Committee for the Cities on Volcanoes 10 Conference, in Naples, last September. I have been active in the Commission on the Chemistry of Volcanic Gases (CCVG) since 2005.

As a member of the IAVCEI EC (2015-19) and president of the Latin American Association of Volcanology (ALVO) I was involved in the formalization of an agreement that made ALVO an Associated Body of IAVCEI, strengthening the relationship between the two groups. I have also been involved in an initiative of the executive committee to promote equity in IAVCEI. I would like to continue my involvement in these and other important initiatives, and to work with the elected EC to continue building a better, more diverse and more inclusive IAVCEI.

I would like to thank the colleagues who nominated and supported me.

Sincerely,

Lizzette A. Rodríguez, PhD



LIZZETTE A. RODRIGUEZ-IGLESIAS

Department of Geology, University of Puerto Rico – Mayagüez Campus PO Box 9000, Mayagüez, PR 00681

Tel: 787-464-3275 Fax: 787-265-3845 e-mail: lizzette.rodriguez1@upr.edu

Education

University of Puerto Rico-Mayagüez Campus	Geology	1997, B.S., Magna Cum Laude
University of Puerto Rico-Mayagüez Campus	Geology	2001, M.S.
Michigan Technological University	Geology	2007, Ph.D.

Research and Teaching Experience

Associate Professor, Dept. of Geology, Univ. of Puerto Rico, Mayagüez, PR	07/2013-Present		
Director, Dept. of Geology, Univ. of Puerto Rico, Mayagüez, PR	05/2012-Present		
Adjunct Associate Professor, Geological and Mining Engineering and Sciences			
Michigan Technological University (MTU), Houghton, MI	08/2015- Present		
Interim Director, Dept. of Geology, Univ. of Puerto Rico, Mayagüez, PR	01/2012-04/2012		
Assistant Professor, Dept. of Geology, Univ. of Puerto Rico, Mayagüez, PR	10/2007-06/2013		
Adjunct Assistant Professor, Geological and Mining Engineering and Sciences			
Michigan Technological University (MTU), Houghton, MI	08/2009-05/2015		
Instructor, Dept. of Geology, Univ. of Puerto Rico, Mayagüez, PR	08/2006-06/2007		
Research Assistant, MTU Dept. of Geology, Houghton, MI	08/2001-07/2006		

- Study of volcanic gas emissions, specifically of SO₂ loss rates at Soufrière Hills and Lascar volcanoes.

Instructor, Comisión Nacional de Actividades Espaciales (CONAE), Argentina 11/2004

- Remote Sensing Workshop on the Monitoring of Active Volcanoes, Detection and Tracking of Volcanic Eruptions, and the Development of Alert Systems for Aviation Hazards

Voluntary Worker, Montserrat Volcano Observatory, Montserrat, BWI 04/2004; 04-05/2003

- Assisting in the ground deformation and gas monitoring of the Soufrière Hills volcano, Montserrat.

Visiting Scientist, Montserrat Volcano Observatory, Montserrat, BWI 03/2004; 05/2002; 02/2000; 09/1999; 06/1998; 06/1997

- Monitoring of sulfur dioxide emission rates. Reoccupation of GPS sites at the Soufrière Hills Volcano, Montserrat.

Research Interests and Experience

- Main research involves the acquisition and analysis of volcanic gas emission data, specifically sulfur dioxide, using ground-based (Differential Optical Absorption Spectroscopy) and satellite-based remote sensing techniques (OMI). Experience using Ocean Optics USB-2000 and 4000 UV spectrometers for SO₂ measurements (Resonance, Ltd. and FLYSPEC systems), UV cameras, and also sun photometers to retrieve data used to determine particle properties in volcanic plumes.
- Research also involves the characterization of pyroclastic deposits and lava flows, specifically from volcanoes in Guatemala.
- Interests: volcanic hazards and monitoring (especially gas and particle emissions and deformation), volcano-atmosphere interactions, pyroclastic deposits.
- Field experience during 9th, 10th, 11th, and 12th Gas Workshops, organized by IAVCEI's Commission on the Chemistry of Volcanic Gases (CCVG).
- Field experience during 7th Volcanic Lake Workshop, Chile, organized by IAVCEI's Commission on Volcanic Lakes (CVL).

- Field work in Guatemala (2002, 2005, 2013-2018), Perú (2015), Costa Rica (2011, 2012), Chile (2002, 2004, 2005, 2014, 2016), Montserrat (1997-2004), El Salvador and Nicaragua (2002).

Other recent positions

Member of Executive Committee July 2015 – June 2019

International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

Ex-officio President January 2019 – December 2020

Asociación Latinoamericana de Volcanología (ALVO)

President January 2017 – December 2018

Asociación Latinoamericana de Volcanología (ALVO)

Member of Scientific Committee

Cities on Volcanoes 10, Naples, Italy 9/2 - 9/7/2018

Member of Organizing Committee of the "Segundo Encuentro de Observatorios Vulcanológicos de

Latinoamérica" 4/23-4/24/2018

Arequipa, Perú Organized by: Asociación Latinoamericana de Volcanología (ALVO),

Instituto Geológico, Minero y Metalúrgico (INGEMMET) of Perú, Volcanic Disaster Assistance Program (USGS-VDAP), and Universidad

Tecnológica de Perú (UTP)

Member of IAVCEI Task Group on Crisis Protocols 2014-Present

Affiliated with the Commission on Volcanic Hazards and Risks - IAVCEI

Member of Honours and Recognition Committee 2016-2019

International Union of Geology and Geophysics (IUGG)

Member of Organizing Committee of the "Primer Encuentro de Observatorios Vulcanológicos de

Latinoamérica" 10/12-10/13/2015

Arequipa, Perú Organized by: ALVO and INGEMMET

Vice-President January 2015 – December 2016

Asociación Latinoamericana de Volcanología (ALVO)

President of Organizing Committee of the 29th Annual Symposium of Caribbean Geology

Department of Geology 27-29 March 2014

University of Puerto Rico – Mayagüez Campus

Regional Advisor for Central America and the Caribbean Nov 2012 – Dec 2014

Asociación Latinoamericana de Volcanología (ALVO)

General Chair - 2013 GSA Southeastern Section Meeting

January 2012 – April 2013

San Juan, Puerto Rico, March 20-21, 2013

IAVCEI-Related Activities

2018 - Participation the Cities on Volcanoes 10 (COV10) conference, Naples, Italy

2017 - Participation in the IAVCEI Scientific Assembly in Portland, Oregon, USA

2017 – Participation in the IAVCEI Scientific Assembly Pre-conference Field Trip; Crater Lake and Newberry volcanoes, OR, USA; 8-12 August

2016 - Participation the Cities on Volcanoes 9 (COV9) conference, Puerto Varas, Chile

2016 – Participation in the COV9 Pre-conference Field Trip; Chaiten volcano, Chile; 15-18 November

2015 – Participation in the 12th Gas Workshop, 16-28 November, Atacama Desert, Chile (Copiapó and

San Pedro de Atacama), visiting Lastarria and Lascar volcanoes and El Tatio Geysers. Offered by:

IAVCEI's Commission on the Chemistry of Volcanic Gases (CCVG).

2014 - Participation in the Cities on Volcanoes 8 (COV8) conference, Yogyakarta, Indonesia

2014 – Participation in the COV8 Pre-conference Field Trip; Dieng Plateau, Central Java; 7-8 September

2012 - Participation in the Cities on Volcanoes 7 (COV7) conference, Colima, Mexico

2012 - Participation in the COV7 VHub Workshop (W4), 18 November

2011 – Participation in the 11th Gas Workshop, 1-10 September, Petropavlosk Kamchatsky (Institute of Volcanology), Mutnovsky and Gorely volcanoes, Russia. Offered by: IAVCEI's CCVG.

2010 – Participation in the Cities on Volcanoes 6 conference, Tenerife, Spain

2010 – Participation in the 7th Volcanic Lake Workshop, 10-19 March, University of Costa Rica and OVSICORI, Poás and Irazú volcanoes, Río Cuarto and Hule maars. Offered by: IAVCEI's Commission of Volcanic Lakes (CVL).

2008 – Participation in the 10th Gas Workshop, 10-20 November, Mexico City (UNAM), Popocatépetl and Colima volcanoes. Offered by: IAVCEI's CCVG.

2008 – Participation in the IAVCEI General Assembly in Reykjavik, Iceland

2005 – Participation in the 9th Gas Workshop, Palermo, Sicily (INGV), Vulcano, Solfatara, and Etna volcanoes. Offered by: IAVCEI's CCVG.

2004 - Participation in the IAVCEI General Assembly in Pucón, Chile

2000 - Participation in the IAVCEI General Assembly in Bali, Indonesia

Recent workshops attended (non-IAVCEI)

"Segundo Encuentro de Observatorios Vulcanológicos de Latinoamérica" 4/23 – 4/24/2018 Arequipa, Perú. Offered by: Asociación Latinoamericana de Volcanología (ALVO), Instituto Geológico, Minero y Metalúrgico (INGEMMET) of Perú, Volcanic Disaster Assistance Program (USGS-VDAP), and Universidad Tecnológica de Perú (UTP)

"Foro Internacional: Gestión del Riesgo Geológico" 4/26 – 4/27/2018

Arequipa, Perú. Offered by: INGEMMET, Perú

"Workshop on Volcanoes 2016 – Santiaguito Volcano" 01/03-01/12/2016

Quetzaltenango, Guatemala

"Primer Encuentro de Observatorios Vulcanológicos de Latinoamérica" 10/12 – 10/13/2015

Arequipa, Perú. Offered by: ALVO and INGEMMET.

"Foro Internacional: Gestión del Riesgo Geológico" 10/14 – 10/16/2015

Arequipa, Perú. Offered by: INGEMMET, Perú

"Developing Sustainable Networks of Women Scientists for Addressing Issues of Disasters Related to Weather and Changing Climate" 10/20 – 10/22/2014 Montego Bay, Jamaica. Workshop funded by NSF and presented by COACh, an organization founded at the University of Oregon that works to increase the number and career success of women scientists and engineers.

"Framing the Issue: A NETWORKing Workshop to Address Academic Advancement of Hispanic Women in STEM", ADVANCE Workshop II for Women in STEM 03/06 – 03/07/2014 Sheraton Convention Center, San Juan. Networking Conference sponsored by NSF and organized by: Universidad Metropolitana and University of Maryland Baltimore County

"Developing Sustainable Networks of Women Scientists for Addressing Issues of Tectonic Hazards"

11/12 - 11/15/2012

Santiago, Chile. Workshop funded by NSF and presented by COACh.

PASI 2011 Open Vent Volcanoes Workshop, Costa Rica

01/10 – 01/23/2011

University of Costa Rica. International workshop funded by NSF's Pan-American Advanced
Studies Institutes Program (PASI) through Michigan Technological University.

Using on-line volcano monitoring data in college and university courses: The Volcano Exploration Project: Pu`u `O`o (VEPP) Workshop 07/26 – 07/30/2010 Hawaii Volcanoes National Park, HI. Collaborative project of the USGS Hawaiian Volcano Observatory, NASA, and the University of Hawaii at Manoa.

Professional Memberships

Asociación Latinoamericana de Volcanología (ALVO)

International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

Commission on the Chemistry of Volcanic Gases (IAVCEI-CCVG)
Commission of Volcanic Lakes (IAVCEI-CVL)
Ash Fall Impacts Working Group (IAVCEI)
American Geophysical Union (AGU)
Geological Society of America (GSA)
Geological Society of Puerto Rico
Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)
Association for Women Geoscientists (AWG)

LIZZETTE A. RODRIGUEZ-IGLESIAS

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Tel: 787-464-3275 Fax: 787-265-3845 e-mail: lizzette.rodriguez1@upr.edu

Publications

- Giordano, G., R. Bretton, E. Calder, R. Cas, J. Gottsman, J. Lindsay, C. Newhall, J. Pallister, P. Papale, L. Rodríguez (IAVCEI Task Group on Crisis Protocols), 2016, "Toward IAVCEI Guidelines on the Roles and Responsibilities of Scientists Involved in Volcanic Hazard Evaluation, Risk Mitigation and Crisis Response", Bulletin of Volcanology, 78:31, DOI 10.1007/s00445-016-1021-8.
- Rodríguez, L.A. and P. Nadeau, 2015, "Resumen de las principales técnicas de percepción remota usadas en volcanes para monitorear las emisiones de gas en la superficie", Numero especial temático: Volcanes y vulcanólogos en America Latina, Revista Geológica de América Central, 52: 67-105 (DOI: 10.15517/rgac.v0i52.18982).
- Henney, L.A., L.A. Rodríguez, I.M. Watson, 2012, "A comparison of SO₂ retrieval techniques using mini-UV spectrometers and ASTER imagery at Lascar volcano, Chile", Bulletin of Volcanology, *doi:* 10.1007/s00445-011-0552-2.
- Rodríguez, L.A., I.M. Watson, M. Edmonds, G. Ryan, V. Hards, C. Oppenheimer, and G.J.S. Bluth, 2008, "SO₂ loss rates in the plume emitted by Soufrière Hills volcano, Montserrat", Journal of Volcanology and Geothermal Research, 173 (1-2): 135-147 (DOI 10.1016/j.jvolgeores.2008.01.003).
- Rodríguez, L.A., Y.K. Branan, I.M. Watson, G.J.S. Bluth, W.I. Rose, G. Chigna, O. Matías, S.A. Carn, and T. Fischer, 2004, "SO₂ emissions to the atmosphere from active volcanoes in Guatemala and El Salvador, 1999-2002", Journal of Volcanology and Geothermal Research, 138: 325-344.

Other articles, manuals, and field guides

- Rodríguez, L.A., 2013, "Experimentos en Volcanología", Spanish translation of manual prepared by Harpp, K.S. and Cashman, K., 14 p.
- Rodríguez, L. and Smith, A.L., 2013, "Field Guide: Volcanic Evolution of Montserrat: From the Silver Hills to the Soufriere Hills Current Eruption", 22-26 March, 2013 SE GSA Meeting post-meeting field trip, 51 p.
- Rodríguez, L.A., 2010, "VEPP: Volcanic activity and monitoring of Pu`u`O`o, Kilauea volcano, Hawaii", Activity/Teaching Resource for the National Association of Geoscience Teachers (http://nagt.org/nagt/vepp/activities.html), Using online volcano monitoring data in college and university courses: The Volcano Exploration Project: Pu'u 'O'o (VEPP).

Invited participations

- Presenter in Debate, 1er Encuentro de Jóvenes Volcanólogos Latinoamericanos, as part of the Cities on Volcanoes 9 conference, in Puerto Varas, Chile. November 22, 2016.
- Principal Scientist and presenter: *Volcanic Gas Monitoring: UV Spectroscopy and Cameras*, as part of the Workshop on Volcanoes 2016, in Quetzaltenango, Guatemala. January 5, 2016.
- Presenter in public forum at the Universidad de San Carlos, Quetzaltenango, Guatemala: *Monitoreo volcánico usando sensores remotos*. January 10, 2016.
- Panelist, Plenary Session 3: *Lessons Learned from Volcanic Crises*. Chairs: John Pallister and Guido Giordano. Cities on Volcanoes 8, Yogyakarta, Indonesia. September 12, 2014.

Recent presentations and abstracts

- Rodríguez, L.A., 2018, "Teaching activity for the classroom: Volcanic activity and monitoring of Pu`u`O`o, Kilauea volcano, Hawaii", ID 569, Cities on Volcanoes 10, Naples, Italy, 2-7 September.
- Rodríguez, L.A., Forte, P., Rivera, M., Agusto, M., Delgado, H., Palma, J, Mariño, J, Samaniego, P., Macedo, L., Wright, H., 2018, "The first two Meetings of Latin American Volcano Observatories (Encuentro de Observatorios Vulcanológicos de Latinoamérica)", ID 567, Cities on Volcanoes 10, Naples, Italy, 2-7 September.
- Reyes, C., Rodríguez, L.A., Chigna, G., Waite, G., Morrow, W., Taras, M., Horton, K., Thomas, H., 2018, "Comparison of Short and Long-term Sulfur Dioxide Gas Emissions and Seismicity from Active Volcanoes in Guatemala", ID 390, Cities on Volcanoes 10, Naples, Italy, 2-7 September.
- Rodríguez, L.A., Rodríguez, K., Ayala, M., Olivencia, M., Chigna, G., 2017, "Preliminary results of grain size and component analysis of pyroclastic deposits from events at Fuego and Santiaguito volcanoes, Guatemala, during the period 2010-16", VH43C-183, IAVCEI Scientific Assembly, Portland, OR, 14-18 August.
- Watson, M., Carn, S.A., Thomas, H., Rodriguez, L.A., Campion, R., Prata, F.J., 2016, "Multispectral Observations of Explosive Gas Emissions from Santiaguito, Guatemala", AGU Fall Meeting, San Francisco, CA, 12-16 November.



INSTITUTO DE GEOFISICA

CIUDAD UNIVERSITARIA

DELEGACION DE COYOACAN

CODIGO 04510 MEXICO, D.F.



January 14, 2019.

RM: Recommendation of Dr. Lizzette Rodríguez for the Executive Committee Member.

Professor Setsuya Nakada Chair, Election Committee International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

Dear Prof. Nakada,

It is my pleasure to nominate Dr. Lizzette A. Rodríguez as a candidate for IAVCEI Executive Committee Member (2019-2023).

During the last years, significant and important agreements have been established, done for the development of volcanology in the Latin-American region: i) Memorandum of Understanding (MOU) for collaboration between IAVCEI and ALVO; ii) "Strategy for Volcanic Risk Reduction in Latin America: ALVO alliance - CERG-C" and iii) start-up of the first internship YLAV (JVLA in Spanish) - ALVO for young Latin-American researchers in volcanic observatories supported by IAVCEI; all these projects and programs were possible thanks to the impulse and work of a working group led by Dr. Rodríguez. All these projects mean: integration, leadership, innovation, creativity, development. For continuity of all of them and implementation of new global projects of, for and by volcanology, I think it is very important to support and promote the candidacy of Dr. Rodríguez as Member of the IAVCEI Executive Committee.

Equally important are the personal qualities of Dr. Rodriguez, including great capacity for group work, professional and committed work, and openness to new ideas and proposals to promote cooperation and collaboration of all regions, young people, work groups, etc. I am confident that having Dr. Rodríguez as Member of the IAVCEI Executive Committee will bring great benefits to regional and global volcanology.

Sincerely,

Mariana Patricia Jácome Paz Vicepresident ALVO (2019 – 2020)



Dr. I. Matthew Watson
Reader in Geophysical Natural Hazards
Department of Earth Sciences
University of Bristol
BS8 1JR, UK
(phone) +44 (0) 117 9545417
matt.watson@bristol.ac.uk

Dear Prof. Setsuya Nakada,

This letter is in strong support for **Lizzette Rodriguez**, as she applies for a position on the IAVCEI executive committee. I was Lizzette's PhD advisor at Michigan Technological University (MTU) and I know her well as a former student, ongoing collaborator and friend.

Lizzette was a very strong PhD student. She secured a federally-funded GAANN (Graduate Assistance in Areas of National Need) Fellowship and a Ford Fellowship for Minorities during her time as a doctoral candidate at MTU. All are highly competitive and underscored both Lizzette's potential and her drive. She was a talented and highly able student and, more importantly for this role, quickly demonstrated her considerable skill as a leader. The tranche of GAANN students who were contemporaries of Lizzette were most women from a diversity of backgrounds and cultures. Lizzette emerged as a strong leader, empathic supporter and powerful advocate for the group, and the graduate student community more broadly.

This flair for leadership is reflected in her career to date. She was made head of department at the University of Puerto Rico-Mayaguez in 2012, a challenging role given the funding landscape and the state of the university more broadly. She has steadied the ship and turned the department into the thriving teaching and research centre it is today. Not satisfied with simply being head of department Lizzette has also held a key leadership role in the Association of Latin American Volcanologists (ALVO) - she was president from 2017-2018.

In summary, Lizzette has all the skills and experience necessary to make an important contribution to IAVCEI. When this is coupled with a long list of her positive personal attributes - she is diligent, reliable, thoughtful, empathetic, kind and inspirational – and the fact that she is an absolute joy to work with, it is clear that Lizzette is an outstanding applicant for the committee. I recommend her unreservedly and with great enthusiasm and I know she will make a great difference to our field.

Best sincerely,

Matthew Waton

14 January, 2019

Professor Setsuya Nakada Chair, IAVCEI election committee, term 2019-2023

Dear Dr. Nakada,

I have been a member of IAVCEI since individual memberships were first offered and have served on the Executive Committee during the 2015-19 term.

Dr. Mariano Agusto has nominated Lizzette Rodríguez Iglesias (University of Mayaguez, Puerto Rico) for the IAVCEI Executive Committee for the 2019-23 term and I would like to second that nomination.

Dr. Rodríguez and I worked together on the Executive Committee for the 2015-2019 period and I had the opportunity to come to know her through this. She is a hard-working advocate for equity and ethical conduct in volcanology. She has also become a leader of the Latin American Volcanological Association (ALVO) and will bring to the Executive Committee many good ideas about how to make IAVCEI more welcoming and useful to volcanologists around the world.

Dr. Rodríguez is an excellent volcanologist and a good communicator (in several languages). She is an outstanding candidate for the Executive Committee.

Sincerely.

Michael Ort Professor

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