



*Mirisbiris Garden  
& Nature Center*

Letter of nomination for Professor Masato Iguchi for IAVCEI Vice-President

We are writing as co-principal nominators for Professor Masato Iguchi to serve as Vice President of IAVCEI.

Professor Iguchi is an exceptionally active researcher who specializes in volcano monitoring and forecasting. His work as the leader of research at the Sakurajima Volcano Research Center has led to an important new understanding of eruptive processes, progress in forecasting of Vulcanian eruptions, and mitigation of volcanic risk. He is an enthusiastic international cooperater, not only with Japanese and foreign colleagues at Sakurajima and other volcanoes in Japan but also in Indonesia. As a founder of the Asian Consortium of Volcanology (ACV), Professor Iguchi has led other nations in the Asia region in joint projects. In particular, he spearheaded efforts to train young volcanologists through ACV “field camps” at Mount Fuji and Sakurajima in Japan and at Merapi volcano in Indonesia.

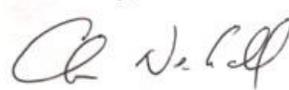
As Director of the Sakurajima Volcano Research Center, Prof. Iguchi has enabled collaborative research with a wide variety of Japanese and foreign partners from Europe, the U.S. and Asia, including multi-disciplinary projects in multiple aspects of volcano monitoring science and interpretation, ranging from seismology and infrasound to gas geochemistry and ash hazards. Prof. Iguchi seamlessly moves back and forth between academic research and applied volcanology for risk mitigation. He has led a major cooperative project with the Indonesian Center for Volcanology and Geologic Hazard Mitigation (CVGHM) and funded by Japan’s Science and Technology Research Partnership for Sustainable Development (SATREPS) program. His work with Indonesian partners has enabled new technological monitoring techniques and scientific advances in forecasting to be implemented by CVGHM at a number of hazardous Indonesian volcanoes. In addition, his work through SATREPS and the University of Kyoto paved the way for numerous Indonesian scientists to attain graduate degrees – a contribution to volcanology and to scientific leadership in Indonesia that will span generations.

Prof. Iguchi’s experience as a scientific leader and Director at Sakurajima, as a program leader for SATREPS, as a colleague of and co-investigator with professional volcanologists from many nations, as well as his role as an organizer of the 2013 IAVCEI Scientific Assembly in Kagoshima and as a member of the Scientific Committee for the Cities on Volcanoes 8 meeting in Yogyakarta clearly qualify him to serve as an IAVCEI Vice President. We are pleased to nominate Professor Iguchi and we suggest that he will bring an important international and Asian perspective to IAVCEI leadership.

Best regards,



Dr. John S. Pallister  
Research Volcanologist and former  
Chief of VDAP (1995-2018)  
Cascades Volcano Observatory  
[jpallist@usgs.gov](mailto:jpallist@usgs.gov)



Dr. Chris Newhall  
Mirisbiris Garden and Nature Center,  
Sto. Domingo, Albay, Philippines  
[cnewhall@gmail.com](mailto:cnewhall@gmail.com)

Dear Madams and Sirs,

I agree to be a candidate of Executive Committee Members of IAVCEI (2015-2019)

Sincerely,

Masato Iguchi

井口 正人

## Short resume outlining the candidate's position, research interests, and activities related to IAVCEI

Name of candidate: Prof. Masato Iguchi

Current Position: Professor; Director of Sakurajima Volcano Research Center, Disaster Prevention Research Institute, Kyoto University (April 2012 – present)

Chairman of Volcanological Society of Japan (VSJ) (July 2014 – June 2018)

### Research position and interests

As Director of Sakurajima Volcano Research Center, Disaster Prevention Research Institute of Kyoto University, Professor Iguchi leads research and applied volcanology investigations, with the goal of improving understanding of eruptive processes, forecasting eruptions and reducing volcanic risk. In collaboration with volcanologists from Japan and other nations, he integrates multi-parameter observations based on monitoring of seismicity, ground deformation, volcanic gas composition, geomagnetism, volcanic ash composition and underground structure. Professor Iguchi has specialized in the study of field monitoring data from Sakurajima, which is one of the most active volcanoes in the world. His accomplishments include the development of new forecasting methods for Sakurajima, using a system of tilt and strain meters in underground tunnels, which provide low-noise and stable conditions. Mechanisms of vulcanian eruptions have been clarified using these monitoring data.

Frequent eruptions of Sakurajima provide a suitable condition for field experiments; as Director of the Research Center, Professor Iguchi has enabled a wide range of investigations by volcanologists from Japan and other countries in the fields of seismology, ground deformation, infrasound, and volcanic lightning. The combination of frequent ash-producing eruptions and proximity of Kagoshima (population ~600,000), 10 km from the vent) make Sakurajima a globally important site for the investigation of volcanic ash. Professor Iguchi has enabled and collaborated in multiple research studies of volcanic ash, including work to improve forecasting of volcanic ash dispersion and fall through the integration of monitoring and modeling systems. Work on volcanic ash has included projects with colleagues from USA, UK, German, Italy, Iceland, France and Greece.

Professor Iguchi and his colleagues from the Sakurajima Research Institute have extended their studies to volcanoes in South Japan and he has led a program to share knowledge gained at Sakurajima with other nations through Japan's Science and Technology Research Partnership for Sustainable Development (SATREPS) program. Since 1993, Professor Iguchi has collaborated extensively with the Volcano Survey of Indonesia (VSI), now the Center for Volcanology and Geological Hazard Mitigation (CVGHM). To mitigate risk, Professor Iguchi and his colleagues have assisted CVGHM to develop new monitoring systems (e.g., at Merapi, Kelud and Sinabung volcanoes), participated in crisis responses, and through advanced training for Indonesians in the field, at Sakurajima, and by facilitating graduate-degrees through Kyoto University.

### Activities directly related to IAVCEI

Professor Iguchi was a core member of the team that invited the IAVCEI Scientific Assembly to Kagoshima in 2008. When it was decided that the 2013 IAVCEI Scientific Assembly would be held in Kagoshima in July 2013, Professor Iguchi served as the vice-chairperson of the executing committee. He also supported the Cities on Volcanoes 8 meeting in Yogyakarta in 2014 as a member of Scientific Committee.

Professor Iguchi was one of the founders of the Asian Consortium of Volcanology (ACV, <http://acv.html.xdomain.jp/about.html>), which brings together volcanologists from Indonesia, Philippines, Singapore, China, South Korea, Taiwan and Japan for the promotion of volcanology and the development of strategies for volcanic disaster prevention through collaboration between volcanologists and authorities. His work with ACV has focused on the development and sharing the knowledge between young volcanologists. He has helped organize field camps of ACV (1st at Mt. Fuji in 2015, 2nd at Sakurajima in 2017, 3rd at Merapi in 2018).

As Chairman of Volcanological Society of Japan (VSJ) (July 2014 – June 2018), among other accomplishments, Professor Iguchi led the VSJ in signing a Memorandum of Understanding with the Italian Association of Volcanology to promote educational programs and encourage bilateral collaboration.

## CURRICULUM VITAE

Prof. Masato Iguchi

Sakurajima Volcano Research Center, Disaster Prevention Research Institute of Kyoto University

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Phone 81 (99) 293-2058 Fax 81 (99) 293-4024  
E-mail iguchi.masato.8m@kyoto-u.ac.jp

Date of Birth April 28, 1958  
Marital Status Married; three children  
Occupation title Professor, Director

<u>Education</u>	<u>Date</u>	<u>Specialization</u>	<u>Degree/Year</u>
Kyoto University	1977-1981	Geophysics	B.Sc., 1981

### Doctor Thesis

“A vertical expansion source model for the mechanisms of volcanic earthquakes originated in the magma conduit of an andesitic volcano: Sakurajima, Japan”, Dr. Sc., Kyoto University (on May 23, 1994)

### Career Experience

June 1981 - October 1995: Research Associate of Sakurajima Volcanological Observatory, Disaster Prevention Research Institute of Kyoto University

November 1995 - March 2012: Associate Professor of Sakurajima Volcanological Observatory, Disaster Prevention Research Institute of Kyoto University

April 2012 - Present: Professor (Director) of Sakurajima Volcano Research Center, Disaster Prevention Research Institute of Kyoto University

### Bibliography

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- Iguchi, M., et al. (2012) Methods for Eruption Prediction and Hazard Evaluation at Indonesian Volcanoes, Jour. Disast. Res., 7, 1, 26-36.
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- Hotta, K., Iguchi, M., Ohkura, T., Hendrasto, M., Gunawan, H., Rosadi, U., Kriswati, E. (2017) Magma intrusion and effusion at Sinabung volcano, Indonesia, from 2013 to 2016, as revealed by continuous GPS observation, J. Volcanol. Geotherm. Res. (in press)
- Aisyah, N., Iguchi, M., Subandriyo, Santoso, A., Hotta, K., Sumarti, S. (2018) Combination of a pressure source and block movement for ground deformation analysis at Merapi volcano prior to the eruptions in 2006 and 2010, J. Volcanol. Geotherm. Res., 357, 239-253.

Rome, December 20th 2018

**To Prof. Setsuya Nakada**  
**President of the IAVCEI Election Committee**

Re: Letter of support for the candidature of Prof. Masato Iguchi to vice-President of IAVCEI

This is to support the candidature of Prof. Masato Iguchi for the position of vice-President of IAVCEI for the next term 2019-2023.

Prof. Masato Iguchi is an outstanding scientist, internationally very well known, who dedicated most of his research to studying the geophysical expression of volcanic activity at Sakurajima Volcano Observatory, of which he is Director since 2012.

Among the many outstanding scientific achievements of Prof. Iguchi, I would like to underline his dedication to develop multidisciplinary approaches to the understanding of eruptive mechanisms, so important for the interpretation of monitoring signals and for forecasting of volcanic eruptions.

His commitment to promoting science and collaboration among scientists is well shown by his activity as vice-Chair of the executive committee for the 2013 IAVCEI Scientific Assembly held in Kagoshima, as well as his support as member of the Scientific Committee to the organization of the Cities on Volcanos 8 conference held in Yogyakarta.

Prof. Iguchi has very open and wise views of the importance of international scientific collaboration, which he fosters also in his position of President of the Volcanological Society of Japan. I have had personally the opportunity to meet and work with Prof. Iguchi when we organized together the Memorandum of Understanding between the Volcanological Society of Japan and the Italian Association of Volcanology (AIV), signed in 2016 at the Embassy of Japan in Rome. We shared the common view of how important is to promote bilateral research and cultural relationships between scientific communities at all levels, from student exchanges to collaborative researches. Under the umbrella of the VSJ-AIV MoU, Prof. Iguchi has been the key person to invite and take the Mayor of Kagoshima to the last Cities on Volcanoes 10 held in Napoli, and in the organization of official meetings between the mayors and administration representatives of the two cities that are twinned around the theme of volcanic risk.

I admire the determination of Prof. Iguchi in promoting and fostering collaborative science in volcanology, a quality which I rate essential for the figure of the next vice-President of IAVCEI.

For these reasons, along with his excellent scientific profile, I am very pleased and deeply honored to support the candidature of Prof. Masato Iguchi to be the next vice-President of IAVCEI.

Sincerely,  
Prof. Guido Giordano  
President of the Italian Association of Volcanology (AIV)





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3<sup>rd</sup> January 2019

## **Re: Letter of support for Prof. Masato Iguchi**

Dear Madam or Sir,

I am writing to wholeheartedly support the nomination of Prof. Masato Iguchi as a vice-president of the IAVCEI Executive Committee (EC); he will be an excellent fit to the position. I have known Prof. Iguchi since 2013 when, following the IAVCEI conference in Kagoshima, we started a research collaboration to study the ground deformation at Sakurajima volcano and Aira caldera as part of my doctoral studies. Since finishing my doctoral studies and starting a new position as a lecturer (assistant professor) at a new institution, I have continued to collaborate with Prof. Iguchi and the team he leads at the Sakurajima Volcano Research Centre (SVRC). Our ongoing research collaboration now integrates geochemistry and petrology, alongside geophysics, and is testament to the excellent academic and interpersonal skills that Prof. Iguchi possesses.

Prof. Iguchi has led a highly impressive academic career, spanning over 36 years. His work has focussed on eruption forecasting, improving our understanding of volcanic unrest and eruption processes, and on reducing volcanic risk, no doubt motivated by the high risk that his 'local' Sakurajima volcano poses to the hundreds of thousands of citizens in the nearby city of Kagoshima. However, Prof. Iguchi's work has not been restricted to applications at Sakurajima volcano. He has made important contributions at volcanoes throughout southern Japan and across Indonesia, working at some of the highest risk volcanoes in the world. Of particular note is his work using multi-disciplinary geophysical monitoring signals to constrain the mechanisms of explosive Vulcanian eruptions, which has made a significant impact on eruption forecasting and the operational work at SVRC and globally. Evidently, Prof. Iguchi has the requisite academic background, and coupled with the significant operational experience gained working at the SVRC he will be able to help drive the IAVCEI to fruitful new heights. In particular, I believe Prof. Iguchi will especially enable the IAVCEI to help close the 'gap' between new academic research developments and the deployment of these developments at active volcano monitoring observatories.

In addition to his academic and operational work, Prof. Iguchi has been ever-present in additional community roles (e.g., IAVCEI 2013 scientific assembly, Cities on Volcanoes 8, the Volcanological Society of Japan, the Asian Consortium of Volcanology, journal special issues), and is always seen with a smile on his face in these situations (and indeed all situations). Such a dedication to the volcanological community is highly commendable, and the ability of

Prof. Iguchi to carry this excitement across different countries and languages whilst maintaining his intellect, enthusiasm and interest mark him out as an excellent candidate for the IAVCEI EC vice-president position.

I have no doubt that a vice-president position will be a huge success for both Prof. Iguchi and the IAVCEI. To reiterate, I absolutely support Prof. Masato Iguchi for a the IAVCEI EC vice-president position.

Yours sincerely,

A handwritten signature in cursive script, appearing to read 'J. Hickey'.

**Dr James Hickey**

*Lecturer in Geophysics | University of Exeter*

ELECTION COMMITTEE

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

Dear Election Committee,

With respect to the Nomination of Prof. Iguchi from Japan as a candidate for Vice President of IAVCEI, I support his nomination for the position.

I knew Prof. Iguchi since 1993 in the beginning of cooperation between Centre for Volcanology and Geological Hazard Mitigation (formerly Volcanological Survey of Indonesia) and Disaster Prevention Research Institute of Kyoto University. During this long collaboration (from 1993 to 2018), highly improved monitoring system were established in Sinabung, Kelud and Merapi Volcanoes. These systems have strengthened our Early Warning System. Capacity building of CVGHM staffs were carried out through short training and also support for graduate degree at Kyoto University. In 2014, during the organization of Cities on Volcanoes (COV 8) in Indonesia, Prof. Iguchi also involved as a member of Scientific Committee. Prof. Iguchi and his team also working with us during crisis response of Merapi and Sinabung Volcanoes.

We greatly appreciate the leadership and efforts of Prof. Iguchi during our cooperation. He has a good leadership, open minded, strong will, and a dedicated scientist in volcanology.

Dr Supriyati Andreastuti  
Center for Volcanology and Geological Hazard Mitigation  
Researcher-Volcanologist  
(IAVCEI Member 1308)

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