

Nomination of Prof. Takashi Kosaki for President of IUSS

I. Details of the Nominee

Name: Prof. Takashi Kosaki
Date of Birth: December 24, 1952
Gender: Male
Nationality: Japan
Current Position: Professor
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Graduate School of Urban Environmental Sciences
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Languages:

	Written	Spoken
Japanese	Excellent	Excellent
English	Good	Excellent
German	Fair	Fair
French	Fair	Fair

II. Details of the Nominators and Signatories

Name: em. Prof. Dr. Kazutake Kyuma
(Honorary Member of IUSS)
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Name: em. Prof. Dr. Dr. h.c. mult. Winfried E.H. Blum
(Honorary Member of IUSS)
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III. Letter from Nominee's Employing Institution

Name: Prof. Dr. Jun Ueno, President, Tokyo Metropolitan University
Address: 1-1 Minami-osawa, Hachioji, Tokyo 192-0397, JAPAN
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IV. Profile of the Candidate

a. ACADEMIC RECORD (Max. 20 lines)

Degrees

1. 1975 Bachelor of Agriculture (Agricultural Chemistry): Kyoto University, Kyoto, Japan
2. 1977 Master of Agriculture (Agricultural Chemistry): Kyoto University, Kyoto, Japan
3. 1982 Doctor of Agriculture (Soil Science): Kyoto University, Kyoto, Japan

Awards, Prizes, Fellowships and Scholarships

1. Exchange Students Scholarship, Ministry of Education, the Government of Japan (in the MS Program in the Department of Soil Science, the University of Wisconsin-Madison, USA, 1975-1976)
2. Graduate Student Scholarship, Japan Student Scholarship Service. (1976-1980)
3. Encouragement Award, Japanese Society of Soil Science and Plant Nutrition. (1989)
4. Best Paper Award, *Soil Science and Plant Nutrition* (2006, 2010 and 2013)
5. Best Paper Award, Japanese Society of Pedology (2007 and 2009)
6. Emeritus Professor, Kyoto University, Japan (2008)
7. Japanese Society of Soil Science and Plant Nutrition Award (2010)
8. Honorable Mention Paper Award, American Society of Agricultural and Biological Engineers (2010)
9. Distinguished Professor of Research, Tokyo Metropolitan University, Japan (2010)
10. Best Paper Award, *Japanese Journal of Soil Science and Plant Nutrition* (2013)
11. Honorary Member, Japanese Society of Pedology (2013)
12. Award of Excellence, First International Soil Judging Contest, WCSS-IUSS (2014)

b. POSITIONS HELD (Max. 20 lines)

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|-----------|--|
| 1981-1985 | Assistant Professor (Soil Science), Kyoto University, Faculty of Agriculture, Kyoto, Japan |
| 1982-1984 | Research Scientist (Soil Chemistry), International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria |
| 1985-1990 | Assistant Professor (Soil Science), Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan |
| 1990-1994 | Associate Professor (Soil Science), Kyoto University, Faculty of Agriculture, Kyoto, Japan |
| 1994-2008 | Professor (Soil Science), Kyoto University, Graduate School of Agriculture, Kyoto, Japan |
| 2002-2008 | Professor (Terrestrial Ecosystems Management), Kyoto University, Graduate School of Global Environmental Studies, Kyoto, Japan |
| 2008- | Emeritus Professor, Kyoto University |
| 2008- | Professor (Tourism Science), Tokyo Metropolitan University, Graduate School of Urban Environmental Sciences, Tokyo, Japan |
| 2016 | Visiting Professor, Norwegian University of Life Sciences, Ås, Norway |

c. SUMMARY OF EXPERTISE AND AREAS OF ACADEMIC RESEARCH/INTERESTS (Max. 20 lines)

1. **Soil genesis and classification:** (i) *Soil forming factors and processes*; acidification, volcanic materials, paddy-based land use in East and Southeast Asia, (ii) *Classification*; diagnostic horizons and taxonomic units associated with rice cultivation and volcanic activities.
2. **Soil information systems:** (i) *Structure of efficient soil data management systems*; methodologies in standardization, analogue-digital conversion, storage and retrieval, GIS, (ii) *Communication tools*; use of web-internet, cloud and mobile terminals.
3. **Soil fertility and land capability/suitability evaluation:** (i) *Multivariate statistical analysis*; extraction of controlling factors, quantification, rating, grouping, (ii) *Integration with legacy data*; soil map, long-term experiment and soil testing data.
4. **Soil variations in time and space:** (i) *Causes of variation*; natural vs. artificial, pedometrics, geostatistics, (ii) *Prediction*; monitoring, pedo-transfer functions and precision agriculture.
5. **Land/soil degradation and remediation (based on the above 1-4):** (i) *Processes*; salinization, soil carbon decline, GHG emission, erosion, pollution (heavy metals and radio-active nuclei), deforestation, shifting cultivation, mechanization, irrigation and drainage, urbanization, (ii) *Remediation and conservation*; crop and land management, nutrient cycling, soil moisture and temperature regimes, (iii) *Technology transfer*; Africa, Asia, Latin America, on-farm trials, north-south, south-south and urban-rural collaboration, rural development, human security.
6. **Soil and environmental education:** (i) *Contents*; fauna, flora, minerals, disaster, good practices, (ii) *Tools*; public awareness, museum, field day, eco-tourism, (iii) *Philosophy*; sustainability, land ethics, religion, corporate social responsibility and holistic approach.

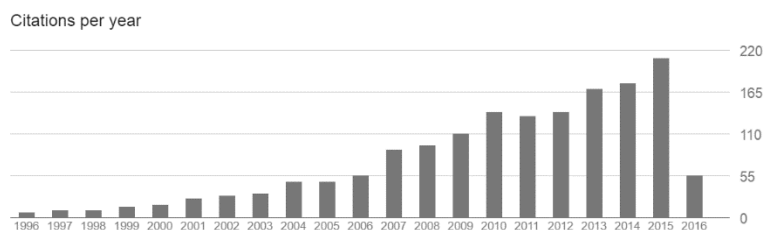
d. SUMMARY OF NATIONAL AND INTERNATIONAL ACTIVITIES (Max. 20 lines)

1. **Japanese Society of Soil Science and Plant Nutrition:** President (2013-2014), Vice-President (2010-2012), Divisional Chairs (2006-2008, 1998-2000).
2. **Japanese Society of Pedology:** President (2010-2013), Honorary Member (2013-present).
3. **Science Council of Japan:** Appointed Member (2012-present).
4. **Ministry/Government of Japan:** Incorporated Administrative Agencies Evaluation Committee.
5. **International Union of Soil Sciences:** Chair of Division 3 (2014-present), Vice-Chair of Commission 3.5 (2010-2014), Member of ICSS/WCSS Organizing Committee (1990, 2014).
6. **East and Southeast Asia Federation of Soil Science Societies (ESAFS):** Member of Organizing Committee (1990 -1991), Member of Advisory Board (2008-2015).
7. **International Conference/Congress Contributions (as convener/co-convener):** ICSS/WCSS (1990, 2010, 2014), ESAFS Conference (2009, 2011, 2013, 2015), ECSSS Eurosoil (2012, 2016), DesertLand (2013), ICOBTE (2015), INQUA Conference (2015), SUSTAIN (2015), SSSEA (2015).
8. **Editorial Contributions**
 - (1) *Soil Science and Plant Nutrition* (cooperating journal of IUSS): Editor-in-Chief (1996-1997), Guest Editor for Special Issues (2013-2015) under the auspices of IUSS.
 - (2) *Pedologist*: Editor-in-Chief (2004-2006), Responsible Editor for Special Issues (2010-2012) under the auspices of IUSS.
 - (3) *Japanese Journal of Soil Science and Plant Nutrition*: Editor-in-Chief (2008-2009).
 - (4) *Applied and Environmental Soil Science*: Editorial Board (2006-Present).

e. **SUMMARY OF PUBLICATIONS BOOKS & MONOGRAPH (Max. 15 lines)**

- a) Books: 8
- b) Refereed International Journals: 146
- c) Refereed Chapters and Reviews: 42
- d) Refereed Conference Papers & Keynotes presentation: 19
- e) Citation and h-Index (Google Scholar, as of May 28, 2016)

Citation indices	All
Citations	1668
h-index	22
i10-index	54



f. **STATEMENT OF INTENT (Max. 30 lines)**

1. International Decade of Soils (IDS): Will be implemented with a series of concrete activities which are well planned in advance and aiming at clear targets, seriously taking the efficiency and effectiveness into consideration, and executed according to the pre-defined schedule with necessary modifications on the way. **a. A series of book** will be published annually by IUSS to cover a variety of aspects of global and environmental issues common to the general public. Not only in printed form but in on-line media must be considered. **b. The World Soil Day** will be celebrated annually by organizing one-day symposia and/or forums with national societies for academic specialists involving not only soils experts but also those from related disciplines as well as for the general public. **c. The framework of soil education** will be standardized aiming at producing a set of materials for the use of teachers and students at different level of schools as a goal of IDS.

2. Cooperation with Sister Organizations: **a. With Professional societies** (e.g. EGU, AGU, JpGU, INQUA) will be jointly convened topical symposiums/sessions at annual meetings together with exhibition for promoting IUSS. **b. With UN and CGIAR** organizations and other international institutes (e.g. FAO, UNEP, UNDP, UNU, UNCCD, IAEA, IITA, IRRI, ICRISAT, ICARDA, IIASA) will be stronger collaboration for general publication (white papers, books), joint projects for specific topics (e.g. GSP and ITPS) in research, outreach, technology transfer, education activities. **c. With Governmental organizations** (e.g. EU, JICA, USAID, ACIAR, GIZ) will seek funding for specific projects, collaborate for promoting adoption of “Soil Protection” resolutions. **d. With Private sector** (e.g. Toyota, Mitsui, Sumitomo, AEON) will seek funding for projects initiating soil and environmental education and promoting CSR and CSV.

3. Governance: **a. National societies and regional unions:** Membership of IUSS will be expanded, particularly, in Asia and Africa, where more collaboration is needed for coping with hot issues regarding soil, environment and security. Regional unions (e.g. ECSSS, FESSS, ASSS, LASSS, ESAFS, SSSEA) will be properly connected with IUSS for prompt sharing information and activating collaboration. **b. Divisions, commissions and working groups:** Will more focus on high quality science on hot issues (global warming, land degradation, urban soils and environment, biodiversity, ecosystem services and soil education) and collaborate each other and also with related

academic communities. **c. Budgetary issues:** Will be strengthened by seeking support from member government, ICUS and national academies (e.g. SCJ), UN-based organizations, NPO/NGO and private sector.

APPENDIX - Acronyms

ACIAR:	Australian Centre for International Agricultural Research
AGU:	American Geophysical Union
ASSS:	Africa Soil Science Society
CGIAR:	Consultative Group on International Agricultural Research
CSR:	Corporate Social Responsibility
CSV:	Creating Shared Value
DesertLand:	Conference on Desertification and Land Degradation
ECSSS:	European Confederation of Soil Science Societies
FAO:	Food and Agricultural Organization
ESAFS:	East and Southeast Asia Federation of Soil Science Societies
FESSS:	Federation of Eurasian Soil Science Societies
EGU:	European Geosciences Union
EU:	European Union
GHG:	Greenhouse gases
GIS:	Geographical Information System
GIZ:	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
GSP:	Global Soil Partnership
IAEA:	International Atomic Energy Agency
ICARDA:	International Center for Agricultural Research in the Dry Areas
ICRISAT:	International Crops Research Institute for the Semi-Arid Tropics
ICOBTE:	International Conference on the Biogeochemistry of Trace Elements
ICSS:	International Congress of Soil Science
ICSU:	International Council for Science
IIASA:	International Institute for Applied Systems Analysis
IITA:	International Institute of Tropical Agriculture
INQUA:	International Union for Quaternary Research
IRRI:	International Rice Research Institute
ITPS:	Intergovernmental Technical Panel on Soils
JICA:	Japan International Cooperation Agency
JpGU:	Japan Geoscience Union
LASSS:	Latin American Soil Science Society (SLCS)
NGO:	Non-Governmental Organizations
NPO:	Nonprofit Organization
SCJ:	Science Council of Japan
SSSEA:	Soil Science Society of East Africa
SUSTAIN:	Soil Functions and Climate Change - do we underestimate the consequences of new disequilibria in soil properties?
UN:	United Nations
UNCCD:	United Nations Convention to Combat Desertification
UNDP:	United Nations Development Programme
UNEP:	United Nations Environment Programme
UNU:	United Nations University
USAID:	US Agency for International Development
WCSS:	World Congress of Soil Science