THE GEOLOGICAL SOCIETY OF AMERICA®

SCIENCE ▪ STEWARDSHIP ▪ SERVICE

12 June 2014

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Dear Tatsuki,

I am pleased to inform you that the Council of The Geological Society of America, at its meeting on 26 April 2014, elected you to GSA Fellowship. GSA Officers, Councilors, and Fellows join me in extending our congratulations to you.

Enclosed is a certificate noting this recognition. In honor of this occasion, your name will be published in the July issue of *GSA Today* and you will be recognized at the Awards Ceremony at the GSA Annual Meeting in Vancouver on Sunday, 19 October. GSA staff member, Jamie Recio, will be following up with you regarding meeting details.

As a GSA Fellow, you are encouraged to participate in Society affairs. If you are interested in serving on a committee for the 2015-2016 term, please visit http://www.geosociety.org/aboutus/committees/index.htm. I also encourage you to keep GSA Fellowship vibrant and healthy by nominating your fellow colleagues to Fellowship in future years.

Once again, congratulations!

Sincerely,

Suzanne Mahlburg Kay
GSA President

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Tatsuki Tsujimori

by action of the Council
has been named a

FELLOW

of

The Geological Society of America

this 26th day of April, 2014

John W. Hess, GSA Executive Director

Suzanne Mahlburg Kay, GSA President

2014 GSA Fellows

Society Fellowship is an honor bestowed on the best of our profession by election at the spring GSA Council meeting. GSA members are nominated by existing GSA Fellows in recognition of their distinguished contributions to the geosciences. Learn more at **www.geosociety.org/members/fellow.htm.**

GSA's newly elected Fellows will be recognized at the 2014 GSA Annual Meeting Awards Ceremony on Sunday, 19 October, at the Vancouver Convention Centre. ***We invite you to read some of what their nominators had to say.***

Carlos Lynn Aiken (The University of Texas at Dallas): Carlos Aiken has applied gravity, magnetic, GPS, and cybermapping methods to advance our knowledge of the crust in the Southwestern USA. —Kevin Lee Mickus

Charles B. Andrews (S.S. Papadopulos & Associates Inc.): Charlie Andrews is a groundwater hydrologist with expertise in groundwater flow, contaminant fate/transport, water resources, and site remediation. He is president of S.S. Papadopulos Associates with nearly 40 years of experience and has published extensively. He has served as a trustee of GSA Foundation since 2007, currently as Treasurer. —Paul G. Feiss

Christopher M. Bailey (College of William and Mary): Bailey has inspired a multitude of students at all levels of college teaching. In addition, he has a remarkable record of mentoring undergraduate students in significant research projects, leading to student-authored abstracts, journal articles, field guides, and geologic maps. —Brent E Owens

Larry Band (University of North Carolina): Elected to Fellowship as the Hydrogeology Division's 2014 Birdsall-Dreiss Lecturer.

Eric S. Cowgill (UC-Davis): Eric Cowgill is internationally recognized for innovative research in active tectonics of the India-Asia collisional system, for developing rigorous approaches to quantifying active fault slip rates, and for leading advances in cyberinfrastructure for geological interpretation of high-resolution imagery and topography. He has strong mentoring and service records. —Eldridge M Moores

William L. Cunningham (U.S. Geological Survey): Publication of geologic research: Bill's broad field experiences have led to numerous publications in refereed journals and USGS reports. He's co-authored many publications from his hydrogeologic fieldwork in Ohio and in North Carolina. More recently, as a division chief, he's co-authored reports dealing with national water issues using larger databases. —Edwin S. Bair

Gareth J. Davies (Tennessee Dept. of Environment): Davies is nominated for conducting high-quality hydrogeological investigations utilizing comprehensive tracing studies to document rapid subsurface flows and subsurface connections over very long distances. His subsurface tracing expertise has allowed him to provide expert oversight as a regulator as appropriate. —Malcolm S. Field

Daniel M. Deocampo (Georgia State University): Deocampo is recognized for his groundbreaking work describing the geochemistry and mineralogy of saline lakes addressing the development of terrestrial climate proxies via clay mineral analyses. Deocampo is the founding member of the Limnology Division of GSA. He is currently serving as Department Chair of Geosciences at Georgia State University. —W. Crawford Elliott

David L. Dilcher (Indiana University): David Dilcher, Fellow of the U.S. National Academy of Sciences, is arguably the most respected paleobotanist in the world. He has some 250 published papers to his credit with a number in *Science* and *Nature*. His contribution to the origin of flowering plants has been seminal and the first. —Abhijit Basu

Nelia W. Dunbar (New Mexico Bureau of Geology and Mineral Resources): Nelia Dunbar is nominated for the quality and breadth of publications and collaboration applied to magmatic volatiles, tephrochronology, volcanology, and glacial geology. By sharing access and data from her electron probe lab she has aided projects from Antarctica to the western U.S., including student research and training. —Charles E. Chapin

Jay Famiglietti (University of California–Irvine): Elected to Fellowship as the Hydrogeology Division's 2012 Birdsall-Dreiss Lecturer.

G. Lang Farmer (University of Colorado–Boulder): Farmer's achievements in understanding continental volcanism, applying Nd isotopes to understanding lithospheric structure and sedimentary provenance are complemented by his multiple selfless contributions to improving education and research at CU-Boulder, his participation in community service such as NAVDAT, and his ability to educate non-geochemists on geochemistry. —Craig H. Jones

Carl Fricke (self-employed): As GSA-GSAF Investment Committee Chair, Carl Fricke has provided the leadership and dedication to the financial success of the Society. For over 35 years, he has been a recognized expert in promoting and applying the geosciences to resolving water resource, engineering, and energy development issues. —David A. Stephenson

William J. Fritz (College of Staten Island, CUNY): For two decades William J. Fritz trained many field geologists in the field geology courses that he taught. He has published several seminal articles that have helped us understand the geology of the Yellowstone hotspot, tectonic sedimentation in associated graben basins, and deposition of volcaniclastic and lacustrine sediments. —Hassan A. Babaie

Peter Geiser (Global Microseismic Services): Geiser is nominated on the basis of his persistent, imaginative, and productive program of pure & applied research on the deformation mechanisms, geometry, kinematics, and mechanics of fold-and-thrust belts. —Ray Fletcher

Rob Govers (Utrecht University): Rob Govers is nominated for fundamental advances in our understanding of plate tectonic processes, plate driving forces and plate boundary evolution. —Kevin P. Furlong

Gabriel Gutierrez-Alonso (University of Salamanca): Gutierrez-Alonso is nominated for his provocative research that has demonstrated that entire mountain belts can buckle about a vertical axis of rotation, that buckling involves the entire lithosphere, and that the formation of Pangea involved buckling of the Appalachian–Variscan mountain system; and for his commitment to the advancement of the earth sciences in Spain and internationally. —Stephen Thomas Johnston

Roy D. Haggerty (Oregon State University): Haggerty has significantly advanced the state of the science in the fields of ecohydrology and surface- and groundwater solute transport. —David A. Benson

FELLOWSHIP NOMINATIONS ARE SUBMITTED IN THE FOLLOWING CATEGORIES:

- Publication of the results of geologic research
- Applied research
- Training of geologists
- Administration of geological programs
- Public awareness of geology
- Professional organizations
- Editorial, bibliographic, and library responsibilities
- Other

Gordon B. Haxel (U.S. Geological Survey): Haxel is a geological leader largely responsible for recognizing the widespread occurrence of Jurassic terranes in southern Arizona and elucidating the close relations between thrust faulting, regional metamorphism, and synorogenic plutonism, as well as his extensive research into the origin of the enigmatic Orocopia schist, an enigmatic, landlocked oceanic terrane. —Robert S. Hildebrand

Tucker Fox Hentz (The University of Texas at Austin): Tucker Hentz has made distinguished contributions to the geosciences through publication of his geologic mapping and applied research in the fields of clastic sequence stratigraphy and depositional systems. His research and publications have direct application to development of geologic resources. Editorship of geologic publications supports his nomination. —Shirley P. Dutton

Thomas D. Hoisch (Northern Arizona University): Hoisch is nominated for GSA Fellowship in recognition of sustained and influential contributions in development and application of techniques to elucidate *P-T-t* histories of metamorphic rocks, including empirical calibration of geothermobarometers, fluid-rock interactions, thermal modeling, and understanding the tectonic history of mid-crustal rocks in the hinterland of the Sevier orogen. —Michael L. Wells

Peter Kyle House (U.S. Geological Survey): Elected to Fellowship as a QG&G Division 2013 Kirk Bryan Award recipient.

"I am pleased to offer this nomination for a scientist with a long and productive career that focused on geoscience issues of national and global importance."

Alan D. Howard (University of Virginia): Elected to Fellowship as the Planetary Geology Division's 2013 G.K. Gilbert Award recipient.

Akira Ishiwatari (Tohoku University Center for Northeast Asian Studies): Akira Ishiwatari, president of the Japanese Geologic Society, is nominated for his pioneer contribution on petrologic diversity and tectonics of many ophiolite belts in Japan and subsequently for those in the Alps, Russia, Mongolia, and Bonin forearc. His recent papers on Japanese greenstones contributed to a new concept of the plume-type ophiolite. —Juhn G. Liou

Nancy L. Jackson (New Jersey Institute of Technology): Jackson's principal research contributions focus on dynamic beach processes. She is the international leader in research on estuarine beaches, and she has made fundamental contributions to research on aeolian transport in the coastal zone and the interaction between biota and geomorphic processes. —Karl F. Nordstrom

Linda C. Kah (University of Tennessee): This nomination is based on Kah's outstanding publications on the topics of (i) sedimentology of ocean sediments formed during the Mesoproterozoic and Ordovician periods of Earth history; and (ii) geochemical and depositional environments of sedimentary rocks on Mars as a member of Mars Science Laboratory Mission. —Larry D. McKay

Carl S. Kirby (Bucknell University): Carl Kirby's scholarship has been intellectually rigorous, influential in the literature, and effectively transferable to informing solutions to vexing environmental problems. Moreover, his watershed-scale research has provided exceptional training for undergraduate students and education/outreach for the general public. —R. Craig Kochel

Eric Kirby (Oregon State University): Eric Kirby has made fundamental and substantial contributions to our understanding of the topographic evolution of orogens during the approach to steady-state. Through his research we better understand the dynamic interplay among active tectonics, landscape topography and fluvial incision during the growth and evolution of the Tibetan Plateau. —Thomas W. Gardner

"[He] provides his time and expertise generously, without bartering for compensation or acclamation."

Karen M. Kortz (Community College of Rhode Island): Karen Kortz was nominated for her many contributions to geoscience education, including workshops, textbooks, research, and governance. She is a strong advocate for geoscience in the community colleges and the incorporation of best teaching practices in the class, and a superb mentor. —Daniel P. Murray

Richard Derek Law (Virginia Tech): Richard Derek Law has provided profound insights into the tectonics of active and ancient collisional mountain belts through the integration of macro- and microstructural data. He has been an enthusiastic advocate of meticulous field-based structural research with an outstanding record of teaching and service to the international Earth Science community. —Richard H. Sibson

"She is a star in the geoscience education community."

Naomi Levin (Johns Hopkins University): Elected to Fellowship as the 2013 Donath Medal Award recipient.

Thomas V. Lowell (University of Cincinnati): For his research contributions to the study and understanding of the nature and dynamics of Late Quaternary glaciation of the Americas. —Lewis A. Owen

Jeff McDonnell (University of Saskatchewan): Elected to Fellowship as the Hydrogeology Division's 2011 Birdsall-Dreiss Lecturer.

William C. McIntosh (New Mexico Bureau of Geology and Mineral Resources): Bill McIntosh has an exceptional research record on the geochronology and volcanology of the major volcanic provinces of western North America and Antarctica. Bill has been a world leader in developing and implementing techniques in $^{40}Ar/^{39}Ar$ dating through his highly productive New Mexico Geochronology Research Laboratory. —Christopher D. Henry

Damian Nance (Ohio University): For his prolific and highly cited research spanning four decades into tectonic processes, especially supercontinent cycles, his contribution to GSA publications and IGCP-UNESCO Programs, mentorship to several generations of students, and outreach to the general public. —Brendan Murphy

"His research and collections have touched in some form or another every continent on the globe."

Nathan A. Niemi (University of Michigan): Nathan Niemi has utilized many approaches to understand continental deformation in several settings. He has applied tectonic geodesy and neotectonics methods to better understand the mechanics and dynamics of crustal extension. He has used and refined low-temperature thermochronologic and paleo-altimetry techniques to better understand orogen growth and exhumation processes. —John W. Geissman

Dani Or (ETH Zurich): Elected to Fellowship as the Hydrogeology Division's 2013 Birdsall-Dreiss Lecturer.

Philip A. Pearthree (Arizona Geological Survey): Elected to Fellowship as a QG&G Division 2013 Kirk Bryan Award recipient.

"She was responsible for hiring well over one hundred geoscientists from all over the world."

S. George Pemberton (University of Alberta): George Pemberton is one of the pioneers and world's leading authority in ichnology—animal-sediment relationships and the study of trace fossils. His groundbreaking research includes fundamental developments in ichnology and its application to invertebrate paleontology, clastic sedimentology, and genetic stratigraphy, leading to paradigm shifts in hydrocarbon exploration and production worldwide. —Stephen T. Hasiotis

Michael E. Perkins (University of Utah): Elected to Fellowship as a QG&G Division 2013 Kirk Bryan Award recipient.

Patrice F. Rey (University of Sydney): Rey is a creative and productive tectonicist who uses a combination of computational and field-based approaches to make significant contributions to understanding the evolution of the lithosphere, including mechanisms and consequences of crustal flow, the development of topography, processes related to rifting of continental margins, and the origin of opal. —Donna L. Whitney

Scott D. Sampson (Denver Museum of Nature & Science): Elected to Fellowship as the 2013 Public Service Award recipient.

Geary M. Schindel (Edwards Aquifer Authority): Geary Schindel has significantly contributed to the administration of geologic programs and public awareness of geology throughout the mid-continent. Under his management, through a series of innovative projects and outreach programs, he has facilitated meaningful understanding of complex karst systems to many organizations and a diverse range of stakeholders. —John V. Brahana

Steven C. Semken (Arizona State University): Semken is an active researcher making important contributions to the field through research publications, teaching, and presentations. He plays important leadership roles in professional societies, geoscience education programs, and Earth science research projects, and is an active participant and leader in the geoscience education community. —Marilyn J. Suiter

Brian L. Sherrod (U.S. Geological Survey): Brian has significantly increased our understanding of the role of upper plate faulting to earthquake hazards in the active Cascadia forearc and backarc through his seminal demonstrations of the power of airborne LiDAR for mapping hazardous faults in glaciated, forested, and urbanized terranes. —Alan R. Nelson

Reginal W. Spiller (Allied Energy): Elected to Fellowship as the 2013 Bromery Award recipient.

Robert J. Sterrett (Itasca Denver Inc.): Recognized for his applied expertise in groundwater flow, groundwater well and drilling technologies, and practical application of hydrogeology to addressing contaminated groundwater. Sterrett is editor and contributor to the third edition of *Groundwater & Wells*, and serves on the GSA Foundation Board and Executive Committee, where he had made instrumental contributions. —Margaret R. Eggers

John S. Stuckless (U.S. Geological Survey): John Stuckless is nominated for his highly productive and geologically diverse career with the USGS and the University of Northern Illinois emphasizing the application of various isotope geochemical methods to a variety of economic and environmental issues including paleo-hydrologic studies in the evaluation of Yucca Mountain as a potential nuclear waste repository.
—Zell E. Peterman

Lori L. Summa (ExxonMobil Upstream Research Co.): Lori Summa has had a distinguished career in the geosciences at ExxonMobil Upstream Research. Her primary area of expertise is integrated basin and hydrocarbon systems analysis. Lori has made significant contributions to research and has educated thousands of young geoscientists by teaching courses at GSA, other professional societies, and ExxonMobil. —Norman (Bob) R. Stewart

Dawn Y. Sumner (UC-Davis): For her contributions to our understanding of life in extreme environments, with an emphasis on understanding the origin and evolution of life on Earth, and in the evolution of Mars and the potential for discovering life on other planets, as well as for her commitment to geoscience education and public outreach. —Isabel P. Montanez

Hans Thybo (University of Copenhagen): Thybo is a world leader in application of seismic methods to studies of the tectonic and magmatic evolution of the continental lithosphere. —Seth Stein

Tatsuki Tsujimori (Okayama University, Misasa, Institute for Study of the Earth's Interior): Tatsuki Tsujimori is nominated for illuminating the petrotectonic processes of cold subduction zones including recycling of fluids + crustal materials. His global researches in active continental margins demonstrate that some lawsonite-bearing rocks recrystallized under "forbidden zone" *P-T* conditions. His comprehensive data syntheses are formulated in 2013 papers on jadeitites, plate-tectonic gemstones, and the fate of subducted continental crust. —Juhn G. Liou

Fred Webb Jr. (Appalachian State University): Fred Webb Jr. is a consummate teacher of geology, especially in the field where geology is best taught. Teaching a range of courses and administering academic programs and field camps, he has sought to bring the field to the classroom, as well as classroom teaching to the field. —William A. Thomas

John C. Weber (Grand Valley State University): John Weber is an accomplished scientist who has bridged geology and space geodesy and has defined the New Madrid seismic zone and the plate motion at the Caribbean-South America boundary. He has been a tremendous educator and inspiration for undergraduate students and a generous citizen of the international tectonics community. —Christian Teyssier

David Williams (Arizona State University): David Williams has tirelessly and selflessly served the Planetary Geology Division of GSA both before and after serving as an elected officer for the division. He enthusiastically promotes planetary science through public outreach and education, reminding the voters of the importance of supporting space science. —Tracy P. Gregg

John A. Wolff (Washington State University): John Wolff is a world-leader in volcanological research. He has been an exemplary geological educator, with an enviable record of student engagement and mentoring in research. He has also served his professional community through leadership in editorial activities and active memberships in professional societies. —Shanaka L. de Silva

William I. Woods (University of Kansas): Elected to Fellowship as the Archaeological Geology Division's 2013 Rip Rapp Award recipient.

Xiaoping Yang (Chinese Academy of Sciences): Xiaoping Yang is an insightful researcher in drylands who bridges science cultures East and West. He is active in service to the geo community, editing *Quaternary Research* and *Quaternary Science Reviews*. He has received the Huang Jiqing Prize in China and the El Baz Award for Desert Research at GSA. —Alan R. Gillespie

Guochun Zhao (University of Hong Kong): Guochun Zhao is a gifted researcher who was one of the first to propose a coherent model for the Paleoproterozoic supercontinent, Nuna, to provide new insight into tectonothermal processes in high grade terranes, and to produce the first integrated model for the subdivision and assembly of the North China craton. —Peter A. Cawood

"His papers show an unusual combination of creativity, energy, breadth, and depth."