

THE FLUX LINE

News of the Geomagnetism and Paleomagnetism Section of AGU

April 2011

2011 AGU Fellows: Rixiang Zhu and Dominique Jault

The AGU Fellows program recognizes AGU members who have made exceptional contributions to Earth and space sciences as valued by their peers. The 2011 class of AGU Fellows was announced this week, and two GP members were included. **Dominique Jault**, widely recognized for his work on problems of the geodynamo, is a research scientist at the Institut des Sciences de la Terre, Grenoble, France. **Rixiang Zhu**, widely recognized for his work in paleomagnetism and geochronology, is a professor at the Institute of Geology and Geophysics, Chinese Academy of Sciences. Both will be honored, along with 58 other newly elected Fellows, at the Fall AGU Meeting in San Francisco next December.

The total number of AGU Fellows is determined by the size of the Union, with the total number capped at 0.1 percent of the membership each year. The distribution of AGU Fellows among the many AGU disciplines is determined by the size of the various Sections and Focus Groups. Because GP is a small Section, about 1000 primary members, we are awarded either zero, one, or—at most—two AGU Fellows each year. Our congratulations to Rixiang Zhu and Dominique Jault!

Charles DeMets (University of Wisconsin), **Krishan Khurana** (University of California, Los Angeles), and **Kristine Larson** (University of Colorado) also were elected to AGU Fellowship in 2011 and have secondary GP affiliation.

Nominations for 2012 AGU Fellows due July 15

Now is the time to nominate your deserving colleagues for 2012 AGU Fellow. Any member of AGU can nominate another member. The deadline is July 15, 2011; nomination details are available at <http://www.agu.org/about/honors/fellows/nominations>.



Better check the magnetometer. We were a little low on the last flight line.

Reminder: Fall AGU abstract deadline arrives early this year!

The long-standing tradition of writing AGU abstracts in late summer has come to an end. AGU has announced that abstract submissions for the 2011 Fall AGU Meeting will open June 8 and close August 4. The AGU Meetings Committee made this recommendation for logistical reasons: The Fall Meeting now draws 19,000 attendees, 31 percent of them from outside the United States, and meeting attendance has been growing at a steady rate of 6 to 8 percent per year over the past decade. The AGU Meetings Committee considered various options, trying to balance the need for additional time for logistics while ensuring that members have the opportunity to present the latest timely research. Mark the date: August 4!

William Gilbert Award nominations due July 30

Nominations for the 2011 William Gilbert Award are due July 30, 2011. The GP Section established the William Gilbert Award in 2003 to recognize outstanding and unselfish work in magnetism of Earth materials and of the Earth and planets, including the whole range of research activities in which GP members are engaged. It is given for excellence in at least one of the following categories: (1) scientific rigor, originality, and impact; (2) leadership and service to the GP research community; and (3) development of new cross-disciplinary research areas and methods. This year, the Gilbert Award is open to all AGU members regardless of age. Detailed instructions are available at http://www.agu.org/about/honors/section_fg/awardnom_sfg.shtml.

Social Media comes to GP (and vice versa)

Thanks to the efforts of our GP Webmaster, **Katerina Petronotis**, and AGU staff, GP now has its own Facebook page (<http://www.facebook.com/AGUGeoPaleoMagnetism>). Use it as a place to network with your GP colleagues, share field and laboratory photos, offer links to interesting websites, and share other useful information.

Student Scholarships for the first biannual Summer School for Rock Magnetism

The first biannual Summer School for Rock Magnetism will be held at the Institute for Rock Magnetism (IRM) in Minneapolis, MN, June 6-15, 2011, with 25 students scheduled to attend. GP is providing a total of \$1000 for student scholarships to attend the summer school. GP scholarships have been awarded to the following students:

- **Agathe Lisé-Pronovost** (Institut des sciences de la mer de Rimouski (ISMER) at the Université du Québec à Rimouski (UQAR), Canada)
- **Stella Lucifora** (University of Roma Tre, Rome, Italy)
- **Vinod Samuel** (Centre For Earth Sciences, Indian Institute Of Science, Bangalore, India)
- **Allison Teletzke** (Lehigh University, USA)

Outstanding Student Paper Awards to Julia Linder and Michael Calkins

Julia Linder, a student at Munich University, was awarded the 2010 Outstanding Student Paper Award for best poster at the 2010 Fall Meeting. The title of her poster was "Variation of paleosecular variation: calculating an S-value from the geomagnetic equator". The OSPA for best oral presentation was awarded to **Michael Calkins**, University of California, Los Angeles, for his talk on "Numerical Simulations of Core Convection with Boundary Topography". The awards will be presented at the GP Business Meeting and Reception in San Francisco next December. Each student will receive \$200 from the GP Section. Thanks to **Laurie Brown** and her committee of judges for evaluating the many excellent student presentations.

Post-doc and early-career opportunities

- **University of Southampton**, England. Three lectureships are currently advertised in the School of Ocean and Earth Science: Lectureship or Fixed-Term Lectureship in Marine Electromagnetics; Lectureship in Geophysics; and Lectureship in Earth Science. Applications are due May 9, 2011. Details are available at jobs.soton.ac.uk, or contact Martin Sinha (sinha@noc.soton.ac.uk).

- **Université de Nantes**, France. A post-doctoral position is available for study of the Martian remanent magnetic field, the past geodynamo, and its effect on Martian environments. Deadline is open. Contact Professor Benoit Langlais (benoit.langlais@univ-nantes.fr).
- **Institute for Rock Magnetism**, Minneapolis. Support is provided for up to 10-day research visits in three areas: Visiting Research Fellows, U.S. Student Fellows, and researchers whose primary goal is to use the u-channel magnetometer system. Applications are accepted twice per year (April 30, October 30). Contact IRM (internet:irm@tc.umn.edu) or visit the web page at www.irm.umn.edu.
- **Institut de Minéralogie et de Physique des Milieux Condensés**, Paris. A 2-year post-doctoral position is available to participate in an interdisciplinary and multi-institutional research initiative using physical-chemical and microbiological techniques to study continental sediments and soils as recorders of past climatic and environmental conditions. The overarching goal is to bridge the 'gap' between high-quality field observations of topsoil magnetism, particle size, geochemical signatures, and the mineral physics and chemistry of well-characterized synthetic nanoparticles of iron oxides. The starting date is negotiable and can be as late as January 2012. Contact Dr. Yohan Guyodo (Yohan.Guyodo@impmc.upmc.fr) for additional information.
- **Dublin Institute for Advanced Studies**, Ireland. Applications are invited for a four-year, fixed-term post-doctoral fellowship to work within IREThERM, a new research initiative to develop a holistic understanding of Ireland's low-enthalpy geothermal energy potential. Applications are requested by May 13, 2011. **Note:** The Dublin Institute for Advanced Studies also is seeking candidates for four PhD student positions to work within the IREThERM program. See <http://www.iretherm.ie> for additional information.

Post docs on the move

We continue the tradition of listing GP post docs, providing brief bios and contact information. If you are a GP post doc, please send your information to *The Flux Line*.

- **Gelvam Hartmann:** PhD from the University of São Paulo (Brazil) and Institute de Physique du Globe de Paris (France). Currently a Post Doctoral Researcher at the University of São Paulo (Department of Geophysics) working on archeomagnetism in South America, with emphasis on intensity variations over the past five centuries. gelvam@iag.usp.br; gelvam@gmail.com
- **Nicola Pressling:** PhD from the University of Leeds. Currently a NERC Research Fellow at the University of Southampton working on the structural and magmatic evolution of the ocean crust from reoriented IODP cores. N.J.Pressling@soton.ac.uk.
- **Natalia Bezaeva:** PhDs from M.V. Lomonosov Moscow State University (Russia) and Aix-Marseille III University (France). Currently a Post Doctoral Research Associate at the Imperial College London (Dept. of Earth Science and Engineering) working on the effect of chemical alteration on the fidelity of palaeomagnetic pseudo-single-domain recorders. n.bezaeva@imperial.ac.uk
- **Greig Paterson:** PhD from the National Oceanography Centre, University of Southampton. Currently a Young International Research Fellow at the Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, working on the paleomagnetism (with an emphasis on paleointensity) of the Emeishan large igneous province in SW China. greig.paterson@mail.igcas.ac.cn.
- **Chris Davies:** PhD from the University of Leeds. Currently a Green Scholar at Scripps Institution of Oceanography working on outer core evolution and geodynamo modeling. In April 2011 will begin a NERC Research Fellowship at the University of Leeds. cjdavies@ucsd.edu.
- **Maxwell Brown:** PhD from the University of Liverpool. Previously an NSF-supported research associate at the Institute for Rock Magnetism, University of Minnesota, working on paleointensity

methodologies. Maxwell began a post-doc position at GFZ Potsdam in January 2011, where he conducts research on the evolution of the Holocene geomagnetic field. mcbrown@gfz-potsdam.de.

Upcoming meetings and abstract deadlines

- LATINMAG Second Biennial Meeting, Tandil, Argentina, November 23-26, 2011. Extended abstracts are due July 31, 2011. See <http://www.geofisica.unam.mx/LIMNO/LATINMAG> for additional information.
- The 5th International Symposium on Three-Dimensional Electromagnetics (3DEM-5) will be held in Sapporo, Japan, in October 2011. The Gerald W. Hohmann Memorial Trust and the Local Organizing Committee invite all EM researchers to this important event. Abstract deadline is May 31, and additional information is available at www.segi.org/3dem5.

M:AP Team Report

A primary task of the current AGU Council is to address this question: Given our new strategic plan, stakeholder expectations of AGU, and what is being asked of science and our members, how does our science need to be organized, recognized, rewarded, disseminated, and promoted? To this end, the Council formed a group known as the M:AP team, composed of 16 Council members (including the GP President), 1 staff member, and 3 facilitators. M:AP has met multiple times face-to-face and at web-based conferences. The three priority topics are (1) affiliation and organization; (2) honors, recognition, and Fellows; and (3) Council's role and composition. Through their meetings, the M:AP team has generated a robust work agenda for the entire Council to consider, including identifying new science position papers needed to support the strategic plan; providing input into strategic review of publications; reviewing status of science meetings and making recommendations; working with the Honors and Recognition Committee to assess existing awards and improve the processes; conducting ongoing scanning of scientific trends and issues; and developing a code of conduct for the Council. Look for future developments in *Eos*, the AGU website, and *The Fluxline*. [Summarized from a recent *Eos* article, <http://www.agu.org/journals/eo/eo1116/2011EO160005.pdf#anchor>]

Denis Ian Gough 1922–2011

Ian Gough, well-respected member of the GP community, passed away recently at the age of 88. Ian received his Ph.D. from the University of Witwatersrand in 1953. From 1947 to 1958 he worked as a researcher at the South African Council for Scientific and Industrial Research, before moving to academe, where he spent the rest of his career. In the years 1958-63 he was at the University College of Rhodesia and Nyasaland (in what is now Harare, Zimbabwe), followed by a short period (1964-66) at the Southwest Center for Advanced Studies in Dallas, Texas. Thereafter, he moved to the University of Alberta, where he remained on the faculty until his retirement in 1988.



Ian had a rich and productive research career in his chosen field of geophysics. He published more than 100 papers in first-class international scientific journals, and made seminal contributions to a wide range of topics in the earth sciences. He belonged to a generation of scientists who approached scientific work very much from first principles. Given a need to bring observations to bear on particular problems, he set about designing, constructing, and operating the necessary apparatus. Using his own magnetometers, for example, Ian established arrays across wide stretches of North America, South

Africa, and Australia. Ian's magnetometers revealed hitherto unknown structures in the earth's crust, such as an ancient plate-tectonic boundary stretching more than 1000 km through the Canadian Shield, south to Wyoming.

Dedicated as he was to his own research, Ian was also committed to playing a leadership role in the scientific community at large. He served as President of the International Association of Geomagnetism

and Aeronomy, President of the Canadian Geophysical Union, and Director of the Institute of Earth and Planetary Physics (now the Institute for Geophysical Research) at the University of Alberta. He was instrumental in setting up Canada's highly acclaimed national geosciences program, *Lithoprobe*. Ian Gough's contributions to geoscience were recognized nationally and internationally. He was awarded the J. Tuzo Wilson Medal by the Canadian Geophysical Union, the Chapman Medal by the Royal Astronomical Society, and the Rudolf Krahnemann Medal by the South African Geophysical Association. He was a Fellow of the Royal Society of Canada, the American Geophysical Union, and the Geological Association of Canada. [*Contributed by Ted Evans*]

Newsletter contributions are welcome.

We welcome news items of general interest to the GP community. Please keep them brief (150 words or less) and send to Rick Blakely (blakely@usgs.gov).

—GP Executive Committee