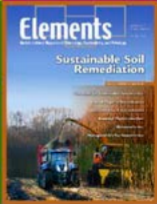
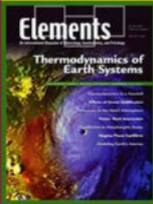


# Volume 6

## 2010





# Meteoritical Society

<http://meteoriticalsociety.org>

## FROM THE PRESIDENT



Hiroko Nagahara,  
University of Tokyo

It is my great pleasure to introduce the Meteoritical Society to the readers of *Elements* and *Elements* to our members. Our society is an international organization founded in 1933 for scientists, collectors, and educators to advance the study of meteorites, cosmic dust, and other extraterrestrial materials and their parent asteroids, comets, and planets.

Some of our 970 members already receive *Elements* through membership in other societies, but for three-quarters of our members, the previous issue of *Elements* was their first.

The council of the Meteoritical Society decided to join the societies sponsoring *Elements* because it offers a great way for our members to communicate with other scientists, educators, and collectors, and for our council and officers to inform our own members and others about Meteoritical Society activities.

The Meteoritical Society has its own journal, *Meteoritics and Planetary Science*, which is now published for the society by Wiley. In addition we cosponsor *Geochimica et Cosmochimica Acta* with the Geochemical Society.

*Elements* has already published many articles written by our members, including papers on exploration of the Moon, water on Mars, early Earth, diamonds, fluids in planetary systems, nanogeoscience, platinum-group elements, mineral magnetism, mineral evolution, and sulfur. Two upcoming issues of *Elements* will focus on cosmochemistry (February 2011) and terrestrial impact craters (February 2012).

To our members: welcome to *Elements*; to nonmembers: consider joining our society if you are interested in the mineralogy, petrology, and geochemistry of extraterrestrial materials.

**Hiroko Nagahara**, President  
The Meteoritical Society

## 2010 SOCIETY AWARD WINNERS

The society gives four major awards each year: the Leonard Medal, the Barringer Medal and Award, the Nier Prize, and the Service Award. In addition, a number of student awards are given each year, including the Gordon McKay Award and the Paul Pellas-Graham Ryder Award. For more information on these awards, see the society webpage.

### Leonard Medal to Hiroshi Takeda



Hiroshi Takeda

Hiroshi Takeda, Emeritus Professor at the University of Tokyo, was awarded this year's Leonard Medal for his outstanding contributions in meteoritics, especially his petrologic studies of the achondrites—howardites, eucrites, and diogenites—and the lunar crust, which have elucidated the geological evolution of the asteroid Vesta and the Moon. The citation was given by Larry Nyquist of NASA's Johnson Space Center. The Leonard Medal honors outstanding contributions to the science of meteoritics and closely allied fields. It was established in 1962 to honor the first president of the society, Frederick C. Leonard.

### Barringer Medal to William K. Hartmann



William Hartmann

This year's Barringer Medal was awarded to William K. Hartmann, cofounder of the Planetary Science Institute. Bill was awarded this medal, which is sponsored by the Barringer Crater Company, as a result of his distinguished career studying cratering on the Moon, Mars, and throughout the solar system, and how it has shaped the surfaces of planetary bodies. The citation was given by Clark Chapman of the Southwest Research Institute.

## ANNUAL MEETINGS

### 2010 Annual Meeting Report



The 73<sup>rd</sup> Annual Meeting of the Meteoritical Society was held in Manhattan, New York, 26–30 July 2010. Over 440 scientific abstracts were submitted, a new record for this meeting. A total of 434 registrants (115 students), were joined by 51 guests, making this the third-largest Meteoritical Society meeting ever. Over \$65,000 of philanthropic and grant-funded travel support was awarded to 59 students and early-career research scientists from around the world. There were 216 oral presentations and over 220 poster presentations. Topics included impacts, planetary science, the ages of ancient rocks, organic material in the solar system, models for preplanetary disks, and ancient components incorporated into meteorites, including presolar grains formed around other stars. Sean Solomon (principal investigator, MESSENGER mission) gave the Barringer Invitational Lecture at the American Museum of Natural History. The meeting abstracts and program are available online at [www.lpi.usra.edu/meetings/metsoc2010/pdf/program.pdf](http://www.lpi.usra.edu/meetings/metsoc2010/pdf/program.pdf).

A preconference workshop, "Disks, Meteorites, Planetesimals," brought together observers of disks around young stellar objects, modelers, and meteoriticists. During a postconference symposium, "Chondrules: Their Role in Early Solar System History," scientists reviewed new findings on these abundant components of primitive meteorites. The program and abstracts are available at [www.lpi.usra.edu/publications/abstracts.shtml](http://www.lpi.usra.edu/publications/abstracts.shtml).

Altogether, this was a singular meeting of a vibrant scientific society. Science quality was very high and attendance was near record-breaking.

**Denton Ebel**, American Museum of Natural History

### Annual Meeting Schedule

2011	Greenwich, England, August 8–12
2012	Cairns, Australia, dates to be announced
2013	Edmonton, Alberta, Canada, July 29–August 2
2014	Casablanca, Morocco, September, dates to be announced



# Meteoritical Society

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## INVITATION TO 2011 ANNUAL MEETING



The 74<sup>th</sup> meeting of the Meteoritical Society will be held in London, United Kingdom, August 8–12, 2011. The organizers invite you to attend the meeting and visit marvelous London. We expect to have a wide variety of interesting sessions. In addition to an exciting program of science, the early results of the Dawn mission in orbit around asteroid 4 Vesta will just be coming back. We are pleased to

announce that Martin Rees, the Astronomer Royal (and current president of the Royal Society), will deliver the Barringer Lecture. Wednesday afternoon will also be available for sight-seeing or an organized outing. There may also be a field trip before the meeting in the highlands of Scotland.

The meeting will be held at the University of Greenwich, located in southeast London. Accommodation will be provided by local hotels and on-campus housing. Greenwich is easily accessible from the center of London and the five airports that serve the greater London area. Full details given in the first announcement are available on the Lunar and Planetary Institute (LPI) website ([www.lpi.usra.edu](http://www.lpi.usra.edu)), and more information is available on the meeting website ([www.metsoc2011.org](http://www.metsoc2011.org)).

For information not available on the websites, please contact the organizers, Gretchen Benedix ([g.benedix@nhm.ac.uk](mailto:g.benedix@nhm.ac.uk)), Phil Bland, Sara Russell, or Caroline Smith.

## CALL FOR AWARD NOMINATIONS

Please consider nominating a colleague for one of the Society's awards. Nominations for Meteoritical Society awards should be sent by January 15 (January 31 for the Pellas-Ryder Award), preferably by e-mail with electronic attachments, to the incoming secretary, Greg Herzog ([herzogsec@rutchem.rutgers.edu](mailto:herzogsec@rutchem.rutgers.edu)); Dept. Chemistry, Rutgers Univ., 610 Taylor Road, Piscataway, NJ 08854, USA). For more information and details on how to submit a nomination for any of these awards, please see the latest newsletter on the Society website or e-mail the secretary.

The **Leonard Medal** honors outstanding contributions to the science of meteoritics and closely allied fields.

The **Barringer Medal and Award** recognize outstanding work in the field of impact cratering and/or work that has led to a better understanding of impact phenomena.

The **Nier Prize** recognizes outstanding research in meteoritics and closely allied fields by young scientists (under 35).

The **Service Award** honors members who have advanced the goals of the Meteoritical Society to promote research and education in meteoritics and planetary science in ways other than by conducting scientific research.

The **Paul Pellas – Graham Ryder Award** is given for best student paper in planetary science and is awarded jointly by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America.

## RENEW YOUR MEMBERSHIP NOW!

If you do not renew by March 31, 2011, a \$15 late fee will be assessed. Renew online at

<http://metsoc.meteoriticalsociety.net>

## 2010 WINNERS OF SOCIETY AWARDS



**NIER PRIZE:** This year's winner is **Danny Glavin**. Danny received the award for his excellent work identifying and analyzing amino acids in planetary, including primary amines in the Stardust samples, and the enantiomeric excess ( $D/L \neq 1$ ) of isovaline in Murchison.



**SERVICE AWARD:** **Joel Schiff** is the winner of this year's Service Award. Joel received this award for his creation and continued publication of *Meteorite* magazine, which successfully bridges the divide between researchers, dealers, amateurs, and collectors of meteorites.



**GORDON MCKAY AWARD:** This year's award, given for the best oral presentation by a student at the annual meeting of the Meteoritical Society, is awarded to **Rachel Smith** of UCLA for her talk entitled "New  $^{12}\text{C}/^{13}\text{C}$  Observations in Young Stellar Objects and Molecular Clouds: Implications for  $^{12}\text{C}/^{13}\text{C}$  in the Early Solar Nebula."



**PAUL PELLAS – GRAHAM RYDER AWARD:** This year's winner is **Vishnu Reddy** of the University of North Dakota for his paper entitled "Composition of 298 Baptistina: Implications for the K/T Impactor Link," published in 2009 in *Meteoritics and Planetary Science* (44: 1917-1927).

## IN MEMORIAM

ARDIS NIER (1921–2009)



Ardis Nier was a great friend of the Meteoritical Society. Ardis, who worked in the Department of Physics and Astronomy at the University of Minnesota, was married to Alfred O. Nier, a major player in the development of mass spectrometry and a meteoriticist. After her husband's death in 1994, Ardis established the Nier Prize for young scientists in the area of meteoritics, which was first awarded at the Berlin meeting in 1996. Ardis was "by nature curious, intelligent, and good spirited." She traveled to many of the Meteoritical Society meetings to meet the winners of this award, which has become a significant achievement for young meteoriticists. Ardis will be much missed by the members of the Meteoritical Society.