Recipients of the Nininger Meteorite Award


Craig M. Merrihue – University of California - Berkeley “Meteoritic Xenon and the Origin of the Meteorite”

Michael Fernandez – Beloit College “Locating Meteorite Falls from Micro-meteorites in Soil Samples”

1962-63  Michael Duke – California Institute of Technology “Petrology of the Basaltic Achondrite Meteorites”

James L. Setser – University Kentucky “Determination of the Abundance of Zirconium and Hafnium in Meteorites, Tektites and Terrestrial Materials”

1963-64  Marvin W. Rowe – University Arkansas “Gamma Radioactivity and Rare Gases in Meteorites and Terrestrial Materials”

Ned Read – Carleton College “The Determination of the Orientation of the Cut-Plane through an Iron Meteorite Relative to its Crystal Structure”

1964-65  William K. Hartmann – University Arizona “Terrestrial and Lunar Flux of Large Meteorites through the Solar System History”

Joseph Goldstein - Massachusetts Institute of Technology “The Growth of the Widmanstatten Pattern in Metallic Meteorites”

<table>
<thead>
<tr>
<th>Year</th>
<th>Author</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1966-67</td>
<td>Marvin W. Rowe</td>
<td>University of California - Berkeley</td>
<td>“Xenomalies”</td>
</tr>
<tr>
<td></td>
<td>Billy P. Glass</td>
<td>Lamont Geological Observatory</td>
<td>(Columbia University) “Microtektites and the Origin of the Australasian Tektite Strewn Field”</td>
</tr>
<tr>
<td></td>
<td>Donald P. Elston</td>
<td>University of Arizona</td>
<td>“Accretion of the Murray Carbonaceous Chondrite and Implications Regarding Chondrule and Chondrite Formation”</td>
</tr>
<tr>
<td>1967-68</td>
<td>Jeffrey Taylor</td>
<td>Rice University</td>
<td>“On the Thermal History of Chondrites”</td>
</tr>
<tr>
<td></td>
<td>Benjamin N. Powell</td>
<td>Lamont Geological Observatory</td>
<td>(Columbia University) “Petrology and Chemistry of Mesosiderites”</td>
</tr>
<tr>
<td></td>
<td>Patrick Freeman</td>
<td>Monmouth College</td>
<td>“Versailles Cryptoexplosive Structure”</td>
</tr>
<tr>
<td></td>
<td>Paul A. Mueller</td>
<td>Rice University</td>
<td>“A Study of FeII Disorder in Chondritic Orthopyroxenes using the Mössbauer Effect”</td>
</tr>
<tr>
<td>1969-70</td>
<td>Christine A. Jones</td>
<td>Radcliffe College</td>
<td>“Tritium Measurements in Recently Fallen Meteorites and in Apollo 12 Lunar Samples”</td>
</tr>
<tr>
<td></td>
<td>Laurel L. Wilkening</td>
<td>University of California - San Diego</td>
<td>“Particle Track Studies and the Origin of Gas-Rich Meteorites”</td>
</tr>
</tbody>
</table>
1970-71  Chen-Lin Chou – University of Pittsburgh “Gallium and Germanium in the Metal and Silicate Phases of L-And LL- Chondrites; Implications for the Thermal History of the Chondrites”

1971-72  J. Marvin Herdon – Texas A & M University “Magnetic Paleothermometry of Carbonaceous Chondrites and Evidence for a Magnetic Field Prior to Meteorite Formation”

1972-73  J. Marvin Herdon – Texas A & M University “The Occurrence, Origin and Significance of Magnetite in Carbonaceous Meteorites”

William R. Kelly – Arizona State University “The Chemical Composition of Metallic Spheroids and Metallic Particles Within Impactite From Barringer Meteorite Crater, Arizona”

John L. Remo – Polytechnic Institute of Brooklyn “A New Interpretation of the Mechanical Properties of the Gibeon Meteorite”


R. Dee Sherrill – University of Arkansas “An Alternate Approach to the Concept of Carbonaceous Chondrite Fission”

1974-75  Kathleen Mark – University of New Mexico “Craters – A Brief History of Their Recognition”

Paul P. Sipiera – Northeastern Illinois University “Devitrification Studies on Chemical
Compositions Corresponding to Ca-Al-Rich Inclusions in the Allende Meteorite”

1975-76 Lisa M. Albright – Massachusetts Institute of Technology “On the Nature of the Natural Remnant Magnetism (NRM) of Iron Meteorites”

Stanley M. Cisowski – University of Pittsburgh “The Effect of Shock on the Remnant Magnetism of Rocks from the Lonar Crater, India”

1976-77 Harry Y. McSween, Jr – Harvard University “The Chemical Composition of Chondrules and Inclusions in Carbonaceous Chondrites”

Edward Stolper – Harvard University “Experimental Petrology and the Origin of Eucritic Meteorites”

1977-78 Horton E. Newson – University of Arizona “Primitive Metal Condensates from the Solar Nebula, a clue from the Bencubbin Meteorite”

Lindy Leung – Wellesley College “In Search of Ancient Magnetic Field Traces in H-chondrites”


M. Bruce Fegley, Jr – Massachusetts Institute of Technology “Chondrite Mineralogy and Equilibrium Chemistry of the Alkalis, Halogens, and Phosphorus in the Primitive Solar Nebula”

1979-80 Alan E. Rubin – University of New Mexico “Derivation of a Heterogeneous Poikilitic Lithic Fragment in the
Bovedy L3 Chondrite from Impact-Melted Porphyritic Chondrules

Steven B. Simon – University of Massachusetts “Petrography, Bulk Chemistry and petrology of Chondrules in the Allende Meteorite”

1980-81 John H. Jones – University of Arizona “The Geochemical Coherence of Pu and ND and the $^{244}\text{Pu}/^{238}\text{U}$ Ratio of the Early Solar System”

Leanne Wiberg – Texas Christian University “The Hico Structure: A Possible Impact Structure in North-Central Texas”


Peter T. Wlasuk – Yale University “The Contributions of Hubert A. Newton to Nineteenth-Century Meteoritics”


R. Kyle Guimon – University of Arkansas “Thermoluminescence and Metamorphism in Type 3 Ordinary Chondrules”

1984-85 Bradley D. Keck – University of Arkansas “Thermoluminescence and Metamorphism in the CO
Chondrites”

1985-86  David Lusby – University of New Mexico “Ubiquitous High-FeO Silicates in the Enstatite Chondrites: Implications for the Chondrule Forming Process”


1987-88  Lindsay P. Keller – Arizona State University “Calcic Micas in the Allende CV3 Chondrite: Implications for the Alteration of Ca- and Al-Rich Inclusions”


1989-90  Timothy James McCoy – University of New Mexico “Metamorphism, Brecciation and Parent Body Structures of LL- Group Chondrites”

Tian Xie – Purdue University “Meteorites Identification and Pairing Recognition Expert System (MIPRES)”
<table>
<thead>
<tr>
<th>Year</th>
<th>Student</th>
<th>Institution</th>
<th>Thesis Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990-91</td>
<td>Xiaoyue Xiao</td>
<td>Purdue University</td>
<td>“Study on Formation Processes of Carbonaceous Chondrites – A Continuous Distribution of Highly Volatile Trace Elements”</td>
</tr>
<tr>
<td>1991-92</td>
<td>Stephen F. Wolf</td>
<td>Purdue University</td>
<td>“Evidence for a H Chondrite Meteoroid Stream”</td>
</tr>
<tr>
<td>1992-93</td>
<td>Don D. Eisenhour</td>
<td>Arizona State University</td>
<td>“Were Chondrules Formed by Light?”</td>
</tr>
<tr>
<td>1993-94</td>
<td>Edward S. Michlovich</td>
<td>Purdue University</td>
<td>“Temporal Variation of H Chondrite Sources”</td>
</tr>
<tr>
<td>1995-96</td>
<td>Dante Lauretta</td>
<td>Washington University, St. Louis</td>
<td>“Experimental Studies of the History Sulfide Minerals from the Solar Nebula to Meteorite Parent Bodies”</td>
</tr>
<tr>
<td>1997-98</td>
<td>Thomas Burbine</td>
<td>Massachusetts Institute of Technology</td>
<td>&quot;Spectroscopy of Vestoids&quot;</td>
</tr>
<tr>
<td>2002-03</td>
<td>Jon M. Friedrich</td>
<td>Purdue University</td>
<td>“Chemical Studies of L Chondrites”</td>
</tr>
<tr>
<td>2006</td>
<td>Lan-Anh Nguyen</td>
<td>Washington University, St. Louis</td>
<td>“Characterization of presolar silicate grains in the Acfer 094 and ALHA77307 carbonaceous chondrites by multi-detection raster ion imaging in the NanoSIMS”</td>
</tr>
<tr>
<td>2007</td>
<td>Nicolas Ouellette</td>
<td>Arizona State University</td>
<td>“Injection of supernova dust into the protoplanetary disk”</td>
</tr>
<tr>
<td>2008</td>
<td>Mary Sue Bell</td>
<td>University of Houston</td>
<td>“Experimental shock decomposition of siderite and the origin of magnetite in Martian meteorite ALH84001”</td>
</tr>
<tr>
<td></td>
<td>Anat Shahar</td>
<td>UCLA</td>
<td>“Astrophysics of CAI formation”</td>
</tr>
</tbody>
</table>
as revealed by silicon isotope LA-MC- ICPMS of an igneous CAI”

2009
Nicholas Moskovitz – University of Hawai’i “The Distribution of Basaltic Asteroids in the Main Belt”

2010
Gregory Brennecka – Arizona State University “$^{238}\text{U}/^{235}\text{U}$ Variations in Meteorites: Extant $^{247}\text{Cm}$ and Implications for Pb- Pb dating”

Honorable Mention: Niina Jamsja – Portland State University Unusual Igneous Textures and Pentlandite in a Meteorite of LL- Chondrite Parentage, NWA 4859”

2011
Andrew Beck – University of Tennessee “Diogenites as polymict breccias composed of orthopyroxenite and harzburgite”

Honorable Mention: Eve L. Berger – University of Arizona “Evidence for aqueous activity on comet 81P/Wild 2 from sulfide mineral assemblages in Stardust samples and CI chondrites”

2012
David Baker – Brown University “The transition from complex craters to multi-ring basins on the Moon: Quantitative geometric properties from Lunar Reconnaissance Orbiter Laser Altimeter (LOLA) data”

Honorable Mention: Devin Schrader – University of Arizona “The Formation and Alteration of the Renazzo-like Carbonaceous Chondrites II: Linking O-isotope Composition and Oxidation State of Chondrule Olivine”

Honorable Mention: Matthew Wielicki – University of
California Los Angeles “Geochemical Signatures and Magmatic Stability of Terrestrial Impact Produced Zircon”

2013 Brandon Johnson – Purdue University “Impact spherules as a record of an ancient heavy bombardment of Earth”

2014 Ingrid Daubar – The University of Arizona “The current martian cratering rate”

Honorable Mention: Emily Pringle – Washington University in St. Louis “Redox state during core formation on asteroid 4-Vesta”

2015 Roger Fu – Massachusetts Institute of Technology “Nebular magnetic fields recorded by the Semarkona meteorite”

Honorable Mention: Adam Sarafian – Woods Hole Oceanographic Institution “Early accretion of water in the inner solar system from a carbonaceous-like source”

2016 François Tissot – University of Chicago “Origin of uranium isotope variations in early solar nebula condensates”