

# GSA/SSSA 2008 Joint Meeting

## Faculty and Student Submissions

### Brenda Buck

<p><b>Monday, October 6, 2008: 1:30 PM-5:30 PM</b>  <b>George R. Brown Convention Center, General Assembly Theater Hall A</b>          205: Critical Zone Studies of Soils and Weathering: Implications for Interpreting Climate and Landscapes of the Past</p> <p><b>4:15pm</b>  <b>Brenda Buck, Co-Author (H. Curtis Monger, New Mexico State University, Presenting)</b>  <i>Scale and the Isotopic Record of C4 Plants In Pedogenic Carbonate—Biome to Rhizosphere</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Monday, 6 October 2008: 2:30 PM</b>  <b>George R. Brown Convention Center, Exhibit Hall E</b>          595 Assessment, Modeling, and Remote Sensing (Posters)</p> <p><b>Brenda Buck, Co-Author (Mandy Williams, UNLV Geoscience, Presenting)</b>  <i>Analysis of Biological Soil Crust Mapping in the Mojave Desert, USA</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Tuesday, 7 October 2008: 8:00 AM</b>  <b>George R. Brown Convention Center, 372DE</b>          335 T17. Integration of Soils and Geomorphology in Deserts: A Tribute to the 50 Years of Soil Research of Dan Yaalon</p> <p><b>11:45am</b>  <b>Brenda Buck, Co-Author (Jason Rech, Miami University, Presenting)</b>  <i>Pedogenic Processes and Paleoclimatic Significance of Sulfate Soils in the Atacama Desert, Chile</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Tuesday, October 7, 2008: 11:30 AM</b>  <b>Hilton Americas Houston, Lanier Grand Ballroom AB</b>          612: Women in Agronomy, Crops, Soils &amp; Environmental Sciences Luncheon</p> <p><b>12:20pm</b>  <b>Brenda Buck, Presenting</b>  <i>Gender Bias in Academia: From Blatant to Subtle</i></p>	<p><a href="#">Abstract</a></p>

<p><b>Wednesday, 8 October 2008: 1:30 PM</b>  <b>George R. Brown Convention Center, General Assembly Theater Hall B</b>  78 J6. Developments in Aeolian Research: Bridging the Interface between Soil, Sediment, and Atmosphere II</p> <p><b>2:50pm</b>  <b>Brenda Buck, Co-Author (Dirk Goossens, UNLV Geoscience, Presenting)</b>  <i>Natural and Anthropogenic Emission of Soil Dust in Nellis Dunes Recreational Area, Clark County, Nevada</i></p>	<a href="#">Abstract</a>
<p><b>Wednesday, 8 October 2008: 1:30 PM</b>  <b>George R. Brown Convention Center, General Assembly Theater Hall B</b>  78 J6. Developments in Aeolian Research: Bridging the Interface between Soil, Sediment, and Atmosphere II</p> <p><b>3:40pm</b>  <b>Brenda Buck, Presenting (Jan Morton &amp; Mike Howell, UNLV Geoscience, Co-Authors)</b>  <i>Effects of Salt Mineralogy on Surface Characteristics: Implications for Dust Emissions, Salton Sea California, USA</i></p>	<a href="#">Abstract</a>
<p><b>Wednesday, 8 October 2008: 4:00 PM</b>  <b>George R. Brown Convention Center, Exhibit Hall E</b>  699 National Science Foundation Poster Session  (Z01 SSSA-ASA-CSSA Special Programs--Invited Abstracts Only)</p> <p><b>Brenda Buck, Co-Author (Colin Robins, UNLV Geoscience, Presenting)</b>  <i>A Novel Approach to Arid Soil Dating: Extraction and <math>^{40}\text{Ar}/^{39}\text{Ar}</math> Geochronology of Pedogenic Sepiolite and Palygorskite</i></p>	<a href="#">Abstract</a>

**Dirk Goossens**

<p><b>Wednesday, 8 October 2008: 1:30 PM</b>  <b>George R. Brown Convention Center, General Assembly Theater Hall B</b>  78 J6. Developments in Aeolian Research: Bridging the Interface between Soil, Sediment, and Atmosphere II</p> <p><b>2:50pm</b>  <b>Dirk Goossens, Presenting (Brenda Buck, UNLV Geoscience, Co-Author)</b>  <i>Natural and Anthropogenic Emission of Soil Dust in Nellis Dunes Recreational Area, Clark County, Nevada</i></p>	<a href="#">Abstract</a>
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## Mike Howell

<p><b>Wednesday, 8 October 2008: 1:30 PM</b> <b>George R. Brown Convention Center, General Assembly Theater Hall B</b> 78 J6. Developments in Aeolian Research: Bridging the Interface between Soil, Sediment, and Atmosphere II</p> <p><b>3:40pm</b> <b>Mike Howell, Co-Author (Brenda Buck, UNLV Geoscience, Presenting)</b> <i>Effects of Salt Mineralogy on Surface Characteristics: Implications for Dust Emissions, Salton Sea California, USA</i></p>	<p><a href="#">Abstract</a></p>
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## Ganqing Jiang

<p><b>Tuesday, 7 October 2008: 8:00 AM</b> <b>George R. Brown Convention Center, 361DE</b> <b>Presiding: Ganqing Jiang and Uwe Brand</b> 230 T35. Paleozoic Oceanographic and Climatic Changes: Evidence from Seawater Geochemistry and Sedimentology Records I</p> <p><b>9:25am</b> <b>Ganqing Jiang, Co-Author (Xinqiang Wang, UNLV Geoscience, Presenting)</b> <i>Carbon Isotope Fractionation in the Early Cambrian Ocean</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Tuesday, 7 October 2008: 8:00 AM</b> <b>George R. Brown Convention Center, 361DE</b> <b>Presiding: Ganqing Jiang and Uwe Brand</b> 230 T35. Paleozoic Oceanographic and Climatic Changes: Evidence from Seawater Geochemistry and Sedimentology Records I</p> <p><b>8:55am</b> <b>Ganqing Jiang, Presenting (Xinqiang Wang, UNLV Geoscience, Co-Author)</b> <i>Organic Carbon Isotope Evidence for Neoproterozoic Postglacial Methane Hydrate Destabilization</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Monday, 6 October 2008: 8:00 AM</b> <b>George R. Brown Convention Center, Exhibit Hall E</b> <b>Presiding: Ganqing Jiang and Uwe Brand</b> 198 T35. Paleozoic Oceanographic and Climatic Changes: Evidence from Seawater Geochemistry and Sedimentology Records (Posters)</p>	

<p><b>Ganqing Jiang, Co-Author (Uwe Brand, Brock University, Presenting)</b>  <i>Global Taghanic and Givetian Seawater Records: An Amelioration of Faunal Realms, Climatic Conditions and High Levels of Atmospheric Carbon Dioxide</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Sunday, October 5, 2008: 8:00 AM-4:45 PM</b>  <b>George R. Brown Convention Center, Exhibit Hall E</b>  152: The Future of Sedimentary Geology: Student Research (Posters)</p> <p><b>Ganqing Jiang, Co-Author (K.A. McFadden, Virginia Tech, Presenting)</b>  <i>High Resolution Lithostratigraphy and Facies Analysis of the Ediacaran (635-551 Ma) Doushantuo Formation, South China</i></p>	<p><a href="#">Abstract</a></p>

**Dave Kreamer**

<p><b>Sunday, 5 October 2008: 1:30 PM</b>  <b>George R. Brown Convention Center, 320DE</b>  160 Marine/Coastal Science</p> <p><b>3:50pm</b>  <b>Dave Kreamer, Presenting</b>  <i>Feasibility of Using Large, Retired and Mothballed Ocean Vessels as Mobile Desalinization Plants</i></p>	<p><a href="#">Abstract</a></p>
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**Jarai Mon**

<p><b>Tuesday, 7 October 2008: 12:40 PM</b>  <b>George R. Brown Convention Center, 362AB</b>  697 Pesticides and Contaminants in Soil:</p> <p><b>3:00pm</b>  <b>Jarai Mon, Presenting (Zhongbo Yu, UNLV Geoscience, Co-Author)</b>  <i>Tracer Characteristics of Brilliant Blue FCF and FD&amp;C Green No. 3 in Arid Soils</i></p>	<p><a href="#">Abstract</a></p>
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## Jan Morton

<p><b>Wednesday, 8 October 2008: 1:30 PM</b> <b>George R. Brown Convention Center, General Assembly Theater Hall B</b> 78 J6. Developments in Aeolian Research: Bridging the Interface between Soil, Sediment, and Atmosphere II</p> <p><b>3:40pm</b> <b>Jan Morton, Co-Author (Brenda Buck, UNLV Geoscience, Presenting)</b> <i>Effects of Salt Mineralogy on Surface Characteristics: Implications for Dust Emissions, Salton Sea California, USA</i></p>	<p><a href="#">Abstract</a></p>
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## Feng Pan

<p><b>Thursday, 9 October 2008: 8:00 AM</b> <b>George R. Brown Convention Center, 351AD</b> 82 J18. Soil Physics and Vadose Zone Hydrology: Our Future Contributions</p> <p><b>10:55am</b> <b>Feng Pan, Presenting (Zhongbo Yu, UNLV Geoscience, Co-Author)</b> <i>Sensitivity Analysis of Contaminant Transport Uncertainty in Unsaturated Zone</i></p>	<p><a href="#">Abstract</a></p>
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## Peg Rees

<p><b>Sunday, 5 October 2008: 8:00 AM</b> <b>George R. Brown Convention Center, Exhibit Hall E</b> 145 Precambrian Geology (Posters)</p> <p><b>Peg Rees, Co-Author (Soo-Yeun Ahn, Ohio State University, Presenting)</b> <i>Body and Trace Fossils from the Deep Spring Formation (Ediacaran), Western Nevada</i></p>	<p><a href="#">Abstract</a></p>
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## Colin Robins

<p><b>Wednesday, 8 October 2008: 4:00 PM</b> <b>George R. Brown Convention Center, Exhibit Hall E</b> 699 National Science Foundation Poster Session (Z01 SSSA-ASA-CSSA Special Programs--Invited Abstracts Only)</p>	
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<p><b>Colin Robins, Presenting (Brenda Buck &amp; Terry Spell, UNLV Geoscience, Co-Authors)</b>  <i>A Novel Approach to Arid Soil Dating: Extraction and <math>^{40}\text{Ar}/^{39}\text{Ar}</math> Geochronology of Pedogenic Sepiolite and Palygorskite</i></p>	<p><a href="#">Abstract</a></p>
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## Steve Rowland

<p><b>Monday, 6 October 2008: 1:30 PM</b>  <b>George R. Brown Convention Center, 351CF</b>  207 T9. Crises on the Reefs? Anticipating the Effects of Global Warming on Reefs by Reference to the Fossil Record—Is the Past Really the Key to the Present in the New Field of Conservation Paleobiology?</p> <p><b>3:15pm</b>  <b>Steve Rowland, Presenting (Melissa Hicks, UNLV Geoscience Alumni, Co-Author)</b>  <i>Anomalous Enhanced Calcification in Irregular Archaeocyaths in a High-CO<sub>2</sub> World: Evidence for Photosymbiosis in Irregular Archaeocyaths</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Tuesday, 7 October 2008: 8:00 AM</b>  <b>George R. Brown Convention Center, Exhibit Hall E</b>  248 Geoscience Education (Posters)</p> <p><b>Steve Rowland, Co-Author (Lawrence Rudd, Nevada State College, Presenting)</b>  <i>Teaching Southern Nevada Geology: An Inquiry-Based Teacher Workshop on Local Geology</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Tuesday, 7 October 2008: 8:00 AM</b>  <b>George R. Brown Convention Center, Exhibit Hall E</b>  249 Paleontology (Posters) II - Paleoecology, Taphonomy, and Traces</p> <p><b>Steve Rowland, Co-Author (Marty Erwin, UNLV Life Sciences, Presenting)</b>  <i>Is the Proximal Gulf of Mexico a Modern Analog for the Middle Cambrian House Embayment?</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Tuesday, 7 October 2008: 1:30 PM</b>  <b>George R. Brown Convention Center, 361C</b>  <b>Presiding: Stephen M. Rowland and Julie Newell</b>  276 T208 History of the Influence of Religion on Geology and Geology on Religion</p>	

<p><b>2:05pm</b>  <b>Steve Rowland, Presenting</b>  <i>Jefferson, Religion, and Megalonyx: The Role of Religion in Thomas Jefferson's Resistance to the Concept of Extinction</i></p>	<p><a href="#">Abstract</a></p>
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**Terry Spell**

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**Xinqiang Wang**

<p><b>Tuesday, 7 October 2008: 8:00 AM</b>  <b>George R. Brown Convention Center, 361DE</b>  <b>Presiding: Ganqing Jiang and Uwe Brand</b>          230 T35. Paleozoic Oceanographic and Climatic Changes: Evidence from Seawater Geochemistry and Sedimentology Records I</p> <p><b>9:25am</b>  <b>Xinqiang Wang, Presenting (Ganqing Jiang, UNLV Geoscience, Co-Author)</b>  <i>Carbon Isotope Fractionation in the Early Cambrian Ocean</i></p>	<p><a href="#">Abstract</a></p>
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## Mandy Williams

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## Zhongbo Yu

<p><b>Tuesday, 7 October 2008: 12:40 PM</b> <b>George R. Brown Convention Center, 362AB</b> 697 Pesticides and Contaminants in Soil:</p> <p><b>3:00pm</b> <b>Zhongbo Yu, Co-Author (Jarai Mon, UNLV Geoscience, Presenting)</b> <i>Tracer Characteristics of Brilliant Blue FCF and FD&amp;C Green No. 3 in Arid Soils</i></p>	<p><a href="#">Abstract</a></p>
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<p><b>Wednesday, 8 October 2008: 8:00 AM</b> <b>George R. Brown Convention Center, 342AD</b> 74 J16. Scaling Methods in Hydrological Research</p> <p><b>8:35am</b> <b>Zhongbo Yu, Presenting</b> <i>The Scaling Impact of Hydrologic Processes on the Integrated Watershed Response</i></p>	<p><a href="#">Abstract</a></p>
<p><b>Monday, October 6, 2008: 4:00 PM-6:00 PM</b> <b>George R. Brown Convention Center, Exhibit Hall E</b> 577: Symposium-Measurements and Modeling of Multiphase Flow and Solute Transport: To Honor the Many Contributions of Jacob Dane III</p>	

**Zhongbo Yu, Co-Author (Haishen Lu, Hohai University, Presenting)**  
*Comparison of Measured and Simulated Water Storage in Dryland Terraces  
of the Loess Plateau, China*

[Abstract](#)