

## 2016 AGU Fall Meeting Scientific Program

### Biogeosciences

| Topic          | Number | Session  | CoSponsors | CoOrganized | Date       | StartTime | EndTime  | Room        | Property      |
|----------------|--------|--|------------|-------------|------------|-----------|----------|-------------|---------------|
| Biogeosciences | B11A   | Biogeochemical Cycling of Oxyanion-Forming Metals and Metalloids in the Environment I Posters  | H          |             | 12/12/2016 | 8:00:00   | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B11B   | Carbon and Water Cycling in Terrestrial Ecosystems during the Anthropocene I Posters   |            |             | 12/12/2016 | 8:00:00   | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B11C   | Carbon Dynamics in Tropical, Arctic/Boreal, Coastal, and Wetland-Dominant Regions I Posters  | C,GC,H,SI  | A,C,GC,NH   | 12/12/2016 | 8:00:00   | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B11D   | Ecological (A)synchrony of Forest Responses to Climate I Posters   | A,GC,H     |             | 12/12/2016 | 8:00:00   | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B11E   | Global Nitrous Oxide Budget: Magnitude, Sources, and Drivers I Posters   | A,GC,PA    |             | 12/12/2016 | 8:00:00   | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B11F   | Microbial Geochemistry and Geomicrobiology: From DNA to Rock I Posters   | EP         | EP          | 12/12/2016 | 8:00:00   | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B11G   | Coastal Blue Carbon: Recent Advances in Measurement and Modeling I   | PA         | OS          | 12/12/2016 | 8:00:00   | 10:00:00 | 2006        | Moscone West  |
| Biogeosciences | B11H   | Coupling the Nitrogen and Carbon Cycles of Terrestrial Ecosystems: Understanding the Nexus between Land Management and GHG Mitigation Strategies I |            |             | 12/12/2016 | 8:00:00   | 10:00:00 | 2008        | Moscone West  |
| Biogeosciences | B11I   | Integrating Biogeochemical and Microbiological Approaches to Understand Ecosystem Processes and Responses to Environmental Change I                |            |             | 12/12/2016 | 8:00:00   | 10:00:00 | 2010        | Moscone West  |

|                |      |   |          |    |            |          |          |             |               |
|----------------|------|---|----------|----|------------|----------|----------|-------------|---------------|
| Biogeosciences | B11J | Quantifying Uncertainties and Merging Observations, Experiments, and Models for Improving Estimation, Mapping, and Forecasting of Terrestrial Ecosystem Dynamics I  |          |    | 12/12/2016 | 8:00:00  | 10:00:00 | 2004        | Moscone West  |
| Biogeosciences | B12A | Coastal Blue Carbon: Recent Advances in Measurement and Modeling II   | PA       | OS | 12/12/2016 | 10:20:00 | 12:20:00 | 2006        | Moscone West  |
| Biogeosciences | B12B | Integrating Biogeochemical and Microbiological Approaches to Understand Ecosystem Processes and Responses to Environmental Change II                                |          |    | 12/12/2016 | 10:20:00 | 12:20:00 | 2010        | Moscone West  |
| Biogeosciences | B12C | Quantifying Uncertainties and Merging Observations, Experiments, and Models for Improving Estimation, Mapping, and Forecasting of Terrestrial Ecosystem Dynamics II |          |    | 12/12/2016 | 10:20:00 | 12:20:00 | 2004        | Moscone West  |
| Biogeosciences | B12D | The Bioatmospheric N Cycle: N Emissions, Transformations, Deposition, and Terrestrial and Aquatic Ecosystem Impacts I   |          |    | 12/12/2016 | 10:20:00 | 12:20:00 | 2008        | Moscone West  |
| Biogeosciences | B13A | Coastal Blue Carbon: Recent Advances in Measurement and Modeling III Posters  | PA       | OS | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B13B | Coupling the Nitrogen and Carbon Cycles of Terrestrial Ecosystems: Understanding the Nexus between Land Management and GHG Mitigation Strategies II Posters         |          |    | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B13C | From Land to Sea: Rivers as Integrated Signal of Watershed Processes, Climate, and Land-Use Change I Posters  | GC,OS,PP |    | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |

|                |      |  |           |           |            |          |          |             |               |
|----------------|------|--|-----------|-----------|------------|----------|----------|-------------|---------------|
| Biogeosciences | B13D | Integrating Biogeochemical and Microbiological Approaches to Understand Ecosystem Processes and Responses to Environmental Change IV Posters                                 |           |           | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B13E | Quantifying Uncertainties and Merging Observations, Experiments, and Models for Improving Estimation, Mapping, and Forecasting of Terrestrial Ecosystem Dynamics III Posters |           |           | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B13F | The Bioatmospheric N Cycle: N Emissions, Transformations, Deposition, and Terrestrial and Aquatic Ecosystem Impacts II Posters   |           |           | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B13G | Understanding Microbial Life in the Subsurface through Interdisciplinary Approaches I  |           |           | 12/12/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B13H | Carbon Dynamics in Tropical, Arctic/Boreal, Coastal, and Wetland-Dominant Regions II   | C,GC,H,SI | A,C,GC,NH | 12/12/2016 | 13:40:00 | 15:40:00 | 2006        | Moscone West  |
| Biogeosciences | B13I | Global Nitrous Oxide Budget: Magnitude, Sources, and Drivers II  | A,GC,PA   |           | 12/12/2016 | 13:40:00 | 15:40:00 | 2008        | Moscone West  |
| Biogeosciences | B13J | Integrating Biogeochemical and Microbiological Approaches to Understand Ecosystem Processes and Responses to Environmental Change III  |           |           | 12/12/2016 | 13:40:00 | 15:40:00 | 2010        | Moscone West  |
| Biogeosciences | B14A | Biogeochemical Cycling of Oxyanion-Forming Metals and Metalloids in the Environment II   | H         |           | 12/12/2016 | 16:00:00 | 18:00:00 | 2008        | Moscone West  |
| Biogeosciences | B14B | Carbon and Water Cycling in Terrestrial Ecosystems during the Anthropocene II  |           |           | 12/12/2016 | 16:00:00 | 18:00:00 | 2006        | Moscone West  |
| Biogeosciences | B14C | Ecological (A)synchrony of Forest Responses to Climate II  | A,GC,H    |           | 12/12/2016 | 16:00:00 | 18:00:00 | 2004        | Moscone West  |

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|----------------|------|--|-----------|----|------------|----------|----------|-------------|---------------|
| Biogeosciences | B14D | Microbial Geochemistry and Geomicrobiology: From DNA to Rock II  | EP        | EP | 12/12/2016 | 16:00:00 | 18:00:00 | 2010        | Moscone West  |
| Biogeosciences | B21A | Biochar: A Biomass Product Sinking Greenhouse Gases and Remediating Water and Soil Posters                                     | EP,H      |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21B | Constraining Ecosystem Carbon Uptake and Long-Term Storage using Models and Data I Posters                                     | GC        |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21C | Crystallization by Particle Attachment: A New Paradigm for Biomineralization? Posters  | MR,OS,PP  |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21D | Efficacy of Biochar Production and Application Posters   |           |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21E | Fifteen Years of Geobiology: The Significant Highlights and the Future I Posters   | EP,H,OS,P |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21F | Gas Fluxes from and into Inland Waters: Scaling Based on Hydrodynamics and Biogeochemistry I Posters                           | H         |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21G | Hydrate Bearing Sediments: Characterization, Modeling, and Thermal, Hydrological, and Geomechanical Behavior I Posters         |           |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21H | Investigating Biological Processes: Insights from New Stable Isotope Methods I Posters   | PP        |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21I | Soil Carbon Dynamics: Soil Carbon Change across Scales I Posters   |           |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B21J | Understanding the Mechanisms of Carbon Allocation and the Impacts on the Terrestrial Ecosystem Carbon and Water Cycles Posters |           |    | 12/13/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |

|                |      |   |          |  |            |          |          |             |               |
|----------------|------|---|----------|--|------------|----------|----------|-------------|---------------|
| Biogeosciences | B21K | From Land to Sea: Rivers as Integrated Signal of Watershed Processes, Climate, and Land-Use Change II   | GC,OS,PP |  | 12/13/2016 | 8:00:00  | 10:00:00 | 2004        | Moscone West  |
| Biogeosciences | B21L | Natural Wetlands and Open Waters in the Global Methane Cycle: Modeling, Observations, Syntheses, and Challenges I                               |          |  | 12/13/2016 | 8:00:00  | 10:00:00 | 2008        | Moscone West  |
| Biogeosciences | B21M | The Role of Fire in the Carbon Cycle: Quantification and Characterization of Emissions, Fluxes, and Sequestration Potential I                   |          |  | 12/13/2016 | 8:00:00  | 10:00:00 | 2006        | Moscone West  |
| Biogeosciences | B21N | Understanding Mechanisms Governing Ecosystem Biogeochemical Cycling in the Solid, Liquid, and Gas Phase: Physiology vs. Physics and Chemistry I |          |  | 12/13/2016 | 8:00:00  | 10:00:00 | 2010        | Moscone West  |
| Biogeosciences | B22A | From Land to Sea: Rivers as Integrated Signal of Watershed Processes, Climate, and Land-Use Change III  | GC,OS,PP |  | 12/13/2016 | 10:20:00 | 12:20:00 | 2004        | Moscone West  |
| Biogeosciences | B22B | Soil Carbon Dynamics: Diving into Our Conceptual and Operational View of Soil Carbon Pools I  |          |  | 12/13/2016 | 10:20:00 | 12:20:00 | 2008        | Moscone West  |
| Biogeosciences | B22C | The Role of Fire in the Carbon Cycle: Quantification and Characterization of Emissions, Fluxes, and Sequestration Potential II                  |          |  | 12/13/2016 | 10:20:00 | 12:20:00 | 2006        | Moscone West  |
| Biogeosciences | B22D | Understanding Microbial Life in the Subsurface through Interdisciplinary Approaches II  |          |  | 12/13/2016 | 10:20:00 | 12:20:00 | 2010        | Moscone West  |
| Biogeosciences | B23A | Challenges of Wildland Fire on Water Quality and Drinking Water Supply Posters  | H        |  | 12/13/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |

|                |      |  |           |      |            |          |          |             |               |
|----------------|------|--|-----------|------|------------|----------|----------|-------------|---------------|
| Biogeosciences | B23B | Natural Wetlands and Open Waters in the Global Methane Cycle: Modeling, Observations, Syntheses, and Challenges II Posters                               |           |      | 12/13/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B23C | New Insights and Approaches for Recent Dating of Peat and Aquatic Sediments Posters  | GC,H,OS   | H,OS | 12/13/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B23D | The Role of Fire in the Carbon Cycle: Quantification and Characterization of Emissions, Fluxes, and Sequestration Potential III Posters                  |           |      | 12/13/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B23E | Understanding Mechanisms Governing Ecosystem Biogeochemical Cycling in the Solid, Liquid, and Gas Phase: Physiology vs. Physics and Chemistry II Posters |           |      | 12/13/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B23F | From Land to Sea: Rivers as Integrated Signal of Watershed Processes, Climate, and Land-Use Change IV  | GC,OS,PP  |      | 12/13/2016 | 13:40:00 | 15:40:00 | 2004        | Moscone West  |
| Biogeosciences | B23G | Hydrate Bearing Sediments: Characterization, Modeling, and Thermal, Hydrological, and Geomechanical Behavior II  |           |      | 12/13/2016 | 13:40:00 | 15:40:00 | 2008        | Moscone West  |
| Biogeosciences | B23H | Investigating Biological Processes: Insights from New Stable Isotope Methods II  | PP        |      | 12/13/2016 | 13:40:00 | 15:40:00 | 2010        | Moscone West  |
| Biogeosciences | B23I | Soil Carbon Dynamics: Models and Experiments Investigating Controls on Soil Organic Matter Vulnerability in Dynamic Landscapes I                         |           |      | 12/13/2016 | 13:40:00 | 15:40:00 | 2006        | Moscone West  |
| Biogeosciences | B24A | Constraining Ecosystem Carbon Uptake and Long-Term Storage using Models and Data II  | GC        |      | 12/13/2016 | 16:00:00 | 18:00:00 | 2004        | Moscone West  |
| Biogeosciences | B24B | Fifteen Years of Geobiology: The Significant Highlights and the Future II  | EP,H,OS,P |      | 12/13/2016 | 16:00:00 | 18:00:00 | 2010        | Moscone West  |

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|----------------|------|---|---------|--|------------|----------|----------|-------------|---------------|
| Biogeosciences | B24C | Gas Fluxes from and into Inland Waters: Scaling Based on Hydrodynamics and Biogeochemistry II                                     | H       |  | 12/13/2016 | 16:00:00 | 18:00:00 | 2008        | Moscone West  |
| Biogeosciences | B24D | Soil Carbon Dynamics: Models and Experiments Investigating Controls on Soil Organic Matter Vulnerability in Dynamic Landscapes II |         |  | 12/13/2016 | 16:00:00 | 18:00:00 | 2006        | Moscone West  |
| Biogeosciences | B31A | 4 Billion Years of Serpentinization on Earth and Beyond I Posters   | V       |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31B | Assessment of Satellite-Derived Essential Climate Variables in the Terrestrial Domain I Posters                                   | C,GC    |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31C | Changing Biogeochemistry of Urban Rivers and Current Mitigation Efforts Posters   | PA      |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31D | Climate Change Mitigation Potential of Wood Use and Forest Management Posters   | GC      |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31E | Mapping and Monitoring Vegetation Structure from Space I Posters  |         |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31F | Recent Trends in Atmospheric Deposition, Soils, and Biogeochemical Controls on Stream Chemistry Posters                           | H       |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31G | Tropical Forests under a Changing Climate I Posters   |         |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31H | Understanding and Predicting Hydrobiogeochemical Responses of Terrestrial-Aquatic Ecosystems to Perturbation Posters              | GC,H    |  | 12/14/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B31I | Constraining Biosphere-Atmosphere Exchange Processes using Remote-Sensing and In Situ Networks I                                  |         |  | 12/14/2016 | 8:00:00  | 10:00:00 | 2008        | Moscone West  |
| Biogeosciences | B31J | Mercury Biogeosciences and Environmental Change I   | A,GC,SI |  | 12/14/2016 | 8:00:00  | 10:00:00 | 2004        | Moscone West  |

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|----------------|------|---|---------|---|------------|----------|----------|-------------|---------------|
| Biogeosciences | B31K | Plant Traits and Biogeochemical Cycles I  |         |   | 12/14/2016 | 8:00:00  | 10:00:00 | 2010        | Moscone West  |
| Biogeosciences | B31L | Soil Carbon Dynamics: Soil Carbon Change across Scales II   |         |   | 12/14/2016 | 8:00:00  | 10:00:00 | 2006        | Moscone West  |
| Biogeosciences | B32A | Characterizing Spatial and Temporal Variability of Hydrological and Biogeochemical Processes across Scales I          | H       |   | 12/14/2016 | 10:20:00 | 12:20:00 | 2004        | Moscone West  |
| Biogeosciences | B32B | Plant Traits and Biogeochemical Cycles II   |         |   | 12/14/2016 | 10:20:00 | 12:20:00 | 2010        | Moscone West  |
| Biogeosciences | B32C | Remote Sensing to Support Investigations in Plant-Climatic Interactions I   |         |   | 12/14/2016 | 10:20:00 | 12:20:00 | 2008        | Moscone West  |
| Biogeosciences | B32D | <b>Sagan Lecture</b>  | P       | P | 12/14/2016 | 10:20:00 | 11:15:00 | 2022/2024   | Moscone West  |
| Biogeosciences | B32E | Soil Carbon Dynamics: Soil Carbon Change across Scales III  |         |   | 12/14/2016 | 10:20:00 | 12:20:00 | 2006        | Moscone West  |
| Biogeosciences | B33A | Alternative Earths: The Co-evolution of Life and its Environments from the GOE to the Rise of Complex Life I Posters  |         |   | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33B | Characterizing Spatial and Temporal Variability of Hydrological and Biogeochemical Processes across Scales II Posters | H       |   | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33C | Constraining Biosphere-Atmosphere Exchange Processes using Remote Sensing and In Situ Networks II Posters             |         |   | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33D | Mercury Biogeosciences and Environmental Change II Posters  | A,GC,SI |   | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33E | Plant Traits and Biogeochemical Cycles III Posters  |         |   | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33F | Remote Sensing to Support Investigations in Plant-Climatic Interactions II Posters                                    |         |   | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |



|                |      |  |           |      |            |          |          |             |               |
|----------------|------|--|-----------|------|------------|----------|----------|-------------|---------------|
| Biogeosciences | B33G | Understanding the Past, Present, and Future of Biodiversity in the Amazon and Brazil's Atlantic Forest Posters                     |           |      | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33H | Urban Areas and Global Change I Posters  | PA        | A,GC | 12/14/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B33I | 4 Billion Years of Serpentinization on Earth and Beyond II   | V         |      | 12/14/2016 | 13:40:00 | 15:40:00 | 2010        | Moscone West  |
| Biogeosciences | B33J | Assessment of Satellite-Derived Essential Climate Variables in the Terrestrial Domain II   | C,GC      |      | 12/14/2016 | 13:40:00 | 15:40:00 | 2008        | Moscone West  |
| Biogeosciences | B33K | Soil Carbon Dynamics: Interactions of Plants, Microbes, and Minerals I   |           |      | 12/14/2016 | 13:40:00 | 15:40:00 | 2006        | Moscone West  |
| Biogeosciences | B34A | Mapping and Monitoring Vegetation Structure from Space II  |           |      | 12/14/2016 | 16:00:00 | 18:00:00 | 2008        | Moscone West  |
| Biogeosciences | B34B | Soil Carbon Dynamics: Interactions of Plants, Microbes, and Minerals II  |           |      | 12/14/2016 | 16:00:00 | 18:00:00 | 2006        | Moscone West  |
| Biogeosciences | B34C | Tropical Forests under a Changing Climate II   |           |      | 12/14/2016 | 16:00:00 | 18:00:00 | 2004        | Moscone West  |
| Biogeosciences | B41A | (Bio-isotopic) Message in a (Rock Record) Bottle Revisited: Who Wrote It, How Did It Get Here, and What Does It Tell Us? I Posters |           |      | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B41B | 20 Years of Eddy Flux Research in AmeriFlux and EuroFlux: History, Highlights, and Future Directions I Posters                     | A,EP,GC,H |      | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B41C | Biogeochemical Cycling in the Cryosphere I Posters   | C,GC,H    |      | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B41D | Soil Carbon Dynamics: Diving into Our Conceptual and Operational View of Soil Carbon Pools II Posters                              |           |      | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B41E | Soil Carbon Dynamics: Interactions of Plants, Microbes, and Minerals III Posters   |           |      | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |

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|----------------|------|--|---------|---------|------------|----------|----------|-------------|---------------|
| Biogeosciences | B41F | Soil Carbon Dynamics: Models and Experiments Investigating Controls on Soil Organic Matter Vulnerability in Dynamic Landscapes III Posters |         |         | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B41G | Tree Mortality: Causes, Patterns, and Implications II Posters  | GC,H,NH | GC,H,NH | 12/15/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B41H | Urban Areas and Global Change II   | PA      | A,GC    | 12/15/2016 | 8:00:00  | 10:00:00 | 2006        | Moscone West  |
| Biogeosciences | B41I | Vegetation Phenology in Terrestrial Ecosystems: Advances in Observations, Mechanisms, Modeling, and Implications I                         |         |         | 12/15/2016 | 8:00:00  | 10:00:00 | 2008        | Moscone West  |
| Biogeosciences | B41J | Vulnerability of Permafrost Carbon to Climate Change I   | C,GC    |         | 12/15/2016 | 8:00:00  | 10:00:00 | 2004        | Moscone West  |
| Biogeosciences | B42A | Tropical Forests under a Changing Climate III  |         |         | 12/15/2016 | 10:20:00 | 12:20:00 | 2020        | Moscone West  |
| Biogeosciences | B42B | Urban Areas and Global Change III  | PA      | A,GC    | 12/15/2016 | 10:20:00 | 12:20:00 | 2006        | Moscone West  |
| Biogeosciences | B42C | Vegetation Phenology in Terrestrial Ecosystems: Advances in Observations, Mechanisms, Modeling, and Implications II                        |         |         | 12/15/2016 | 10:20:00 | 12:20:00 | 2008        | Moscone West  |
| Biogeosciences | B42D | Vulnerability of Permafrost Carbon to Climate Change II  | C,GC    |         | 12/15/2016 | 10:20:00 | 12:20:00 | 2004        | Moscone West  |
| Biogeosciences | B43A | Advancing Understanding of Ecosystem Structure and Function through Remote Sensing I Posters   |         |         | 12/15/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B43B | Vegetation Phenology in Terrestrial Ecosystems: Advances in Observations, Mechanisms, Modeling, and Implications III Posters               |         |         | 12/15/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B43C | Vulnerability of Permafrost Carbon to Climate Change III Posters   | C,GC    |         | 12/15/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B43D | (Bio-isotopic) Message in a (Rock Record) Bottle Revisited: Who Wrote It, How Did It Get Here, and What Does It Tell Us? II                |         |         | 12/15/2016 | 13:40:00 | 15:40:00 | 2010        | Moscone West  |

|                |      |   |           |         |            |          |          |             |               |
|----------------|------|---|-----------|---------|------------|----------|----------|-------------|---------------|
| Biogeosciences | B43E | 20 Years of Eddy Flux Research in AmeriFlux and EuroFlux: History, Highlights, and Future Directions II   | A,EP,GC,H |         | 12/15/2016 | 13:40:00 | 15:40:00 | 2008        | Moscone West  |
| Biogeosciences | B43F | Alternative Earths: The Co-evolution of Life and its Environments from the GOE to the Rise of Complex Life II   |           |         | 12/15/2016 | 13:40:00 | 15:40:00 | 3001        | Moscone West  |
| Biogeosciences | B43G | Biogeochemical Cycling in the Cryosphere II   | C,GC,H    |         | 12/15/2016 | 13:40:00 | 15:40:00 | 2004        | Moscone West  |
| Biogeosciences | B43H | Tree Mortality: Causes, Patterns, and Implications I  | GC,H,NH   | GC,H,NH | 12/15/2016 | 13:40:00 | 15:40:00 | 2020        | Moscone West  |
| Biogeosciences | B43I | Urban Areas and Global Change IV  | PA        | A,GC    | 12/15/2016 | 13:40:00 | 15:40:00 | 2006        | Moscone West  |
| Biogeosciences | B44A | 20 Years of Eddy Flux Research in AmeriFlux and EuroFlux: History, Highlights, and Future Directions III  | A,EP,GC,H |         | 12/15/2016 | 16:00:00 | 18:00:00 | 2008        | Moscone West  |
| Biogeosciences | B44B | Biogeochemical Cycling in the Cryosphere III  | C,GC,H    |         | 12/15/2016 | 16:00:00 | 18:00:00 | 2004        | Moscone West  |
| Biogeosciences | B44C | Remote Sensing of Vegetation Biomass I  |           |         | 12/15/2016 | 16:00:00 | 18:00:00 | 2006        | Moscone West  |
| Biogeosciences | B44D | The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change I  | C,GC,H,SI |         | 12/15/2016 | 16:00:00 | 18:00:00 | 2020        | Moscone West  |
| Biogeosciences | B51A | Applying Lessons Learned from Established Contaminants to Elucidate the Fate, Impact, and Risk Associated with Technology: Critical Elements and Other Substances of Emerging Concern I Posters |           |         | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51B | Chlorophyll Fluorescence as a Proxy of Photosynthesis: From Field to Satellite Measurements, Modeling, and Applications I Posters   |           |         | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51C | Forest Structure from Lidar: Getting and Using Structure to Monitor and Model Changes in Forest Ecosystem Functions and Services I Posters  |           |         | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |

|                |      |  |           |           |            |          |          |             |               |
|----------------|------|--|-----------|-----------|------------|----------|----------|-------------|---------------|
| Biogeosciences | B51D | Land Use Decisions and Biogeochemical Processes I Posters  | GC        |           | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51E | New Mechanisms, Feedbacks, and Approaches for Improving Predictions of Global Biogeochemical Cycles in Earth System Models I Posters | A,GC,H,OS | A,GC,H,OS | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51F | Remote Sensing of Vegetation Biomass II Posters  |           |           | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51G | Revealing the Hidden Half: Advances in Imaging and Quantification of Plant Roots and Root-Soil Interactions I Posters                | GC,H      |           | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51H | Soil Phosphorus Cycling from the Tropics to the Poles I Posters  | GC        |           | 12/16/2016 | 8:00:00  | 12:20:00 | Poster Hall | Moscone South |
| Biogeosciences | B51I | Advancing Understanding of Ecosystem Structure and Function through Remote Sensing II  |           |           | 12/16/2016 | 8:00:00  | 10:00:00 | 2006        | Moscone West  |
| Biogeosciences | B51J | Alteration of Disturbance-Driven Forest Dynamics under a Changing Climate I  |           |           | 12/16/2016 | 8:00:00  | 10:00:00 | 2004        | Moscone West  |
| Biogeosciences | B51K | Geomicrobiology of Extreme Environments: Scarcity is the Mother of Invention I   | DI,EP,OS  |           | 12/16/2016 | 8:00:00  | 10:00:00 | 2010        | Moscone West  |
| Biogeosciences | B51L | The Fate of Carbon in Plants and Terrestrial Ecosystems: From Respiration to Allocation I  |           |           | 12/16/2016 | 8:00:00  | 10:00:00 | 2008        | Moscone West  |
| Biogeosciences | B52A | Advancing Understanding of Ecosystem Structure and Function through Remote Sensing III   |           |           | 12/16/2016 | 10:20:00 | 12:20:00 | 2006        | Moscone West  |
| Biogeosciences | B52B | Constraining Photosynthesis or Respiration of CO <sub>2</sub> at Ecosystem, Regional, or Global Scales I                             | A         |           | 12/16/2016 | 10:20:00 | 12:20:00 | 2008        | Moscone West  |
| Biogeosciences | B52C | The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change II  | C,GC,H,SI |           | 12/16/2016 | 10:20:00 | 12:20:00 | 2020        | Moscone West  |

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|----------------|------|---|-----------|---|------------|----------|----------|-------------|---------------|
| Biogeosciences | B52D | Vegetation Canopies: Observations and Theory of Physiology, Structure, and Function I                             |           |   | 12/16/2016 | 10:20:00 | 12:20:00 | 2004        | Moscone West  |
| Biogeosciences | B53A | Alteration of Disturbance-Driven Forest Dynamics under a Changing Climate II Posters                              |           |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53B | Constraining Photosynthesis or Respiration of CO <sub>2</sub> at Ecosystem, Regional, or Global Scales II Posters | A         |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53C | Geomicrobiology of Extreme Environments: Scarcity is the Mother of Invention II Posters                           | DI,EP,OS  |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53D | Global Distribution Patterns of Soil Biota and Their Relationships to Earth Biogeochemical Cycling Posters        |           |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53E | Remote Sensing of Forests and Plantations in the Tropical and Subtropical Zones Posters                           | GC        |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53F | The Fate of Carbon in Plants and Terrestrial Ecosystems: From Respiration to Allocation II Posters                |           |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53G | The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change III Posters                    | C,GC,H,SI |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53H | Unmanned Aerial Systems (UAS) Applications in Agriculture and Natural Resource Management Posters                 |           | H | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53I | Vegetation Canopies: Observations and Theory of Physiology, Structure, and Function II Posters                    |           |   | 12/16/2016 | 13:40:00 | 18:00:00 | Poster Hall | Moscone South |
| Biogeosciences | B53J | Advancing Understanding of Ecosystem Structure and Function through Remote Sensing IV                             |           |   | 12/16/2016 | 13:40:00 | 15:40:00 | 2006        | Moscone West  |

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|----------------|------|--|-----------|-----------|------------|----------|----------|------|--------------|
| Biogeosciences | B53K | Applying Lessons Learned from Established Contaminants to Elucidate the Fate, Impact, and Risk Associated with Technology: Critical Elements and Other Substances of Emerging Concern II |           |           | 12/16/2016 | 13:40:00 | 15:40:00 | 2010 | Moscone West |
| Biogeosciences | B53L | Chlorophyll Fluorescence as a Proxy of Photosynthesis: From Field to Satellite Measurements, Modeling, and Applications II   |           |           | 12/16/2016 | 13:40:00 | 15:40:00 | 2008 | Moscone West |
| Biogeosciences | B53M | Land Use Decisions and Biogeochemical Processes II   | GC        |           | 12/16/2016 | 13:40:00 | 15:40:00 | 2004 | Moscone West |
| Biogeosciences | B54A | Chlorophyll Fluorescence as a Proxy of Photosynthesis: From Field to Satellite Measurements, Modeling, and Applications III  |           |           | 12/16/2016 | 16:00:00 | 18:00:00 | 2008 | Moscone West |
| Biogeosciences | B54B | Forest Structure from Lidar: Getting and Using Structure to Monitor and Model Changes in Forest Ecosystem Functions and Services II  |           |           | 12/16/2016 | 16:00:00 | 18:00:00 | 2004 | Moscone West |
| Biogeosciences | B54C | New Mechanisms, Feedbacks, and Approaches for Improving Predictions of Global Biogeochemical Cycles in Earth System Models II  | A,GC,H,OS | A,GC,H,OS | 12/16/2016 | 16:00:00 | 18:00:00 | 2006 | Moscone West |
| Biogeosciences | B54D | Revealing the Hidden Half: Advances in Imaging and Quantification of Plant Roots and Root-Soil Interactions II   | GC,H      |           | 12/16/2016 | 16:00:00 | 18:00:00 | 2012 | Moscone West |
| Biogeosciences | B54E | Soil Phosphorus Cycling from the Tropics to the Poles II   | GC        |           | 12/16/2016 | 16:00:00 | 18:00:00 | 2002 | Moscone West |
| Biogeosciences | B54F | The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change IV  | C,GC,H,SI |           | 12/16/2016 | 16:00:00 | 18:00:00 | 2020 | Moscone West |