A Sea of Change: JGOFS Accomplishments and the Future of Ocean Biogeochemistry

Final Open Science Conference

5-8 May 2003, Washington, D.C., U.S.A.

Registration and Call for Poster Abstracts
This conference is supported by the U.S. National Science Foundation, the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, the U.S. Office of Naval Research, the International Geosphere-Biosphere Programme, the Scientific Committee on Oceanic Research, the Research Council of Norway and the Ocean Studies Board of the U.S. National Academy of Sciences.

Program Editors: Ken Buesseler, Mary Zawolsky and Mardi Bowles. Design: Katherine Joyce, WHOI Graphic Services.
Dear Colleague,

On behalf of the Scientific Steering Committee for the Joint Global Ocean Flux Study (JGOFS), the Scientific Committee for Oceanic Research and the International Geosphere-Biosphere Programme, I cordially invite you to participate in the 3rd and final JGOFS Open Science Conference (OSC). The OSC will be held at the U.S. National Academy of Sciences (NAS) in Washington, D.C., 5-8 May 2003. The venue recognizes the birth of JGOFS in 1984 at an NAS-sponsored workshop held in Woods Hole, Massachusetts. It also reminds us that the first international JGOFS science meeting, the North Atlantic Bloom Experiment Symposium, was held at the NAS in 1990.

Now we come together to celebrate the successful completion of JGOFS. The program is wider, deeper and richer than most of us ever imagined it would be. The global ocean carbon dioxide system has been mapped with unprecedented coverage and precision. Several oceanic time-series studies have amassed more than a decade’s worth of high-quality observations of ecological and biogeochemical indicators of climate change and ecosystem transformation. A wealth of insights and data from process studies is being enshrined in new models of ocean dynamics. Two generations of graduate students have learned from JGOFS fieldwork and publications. All this and more will be on display in Washington. We hope you will come and join us for an in-depth look at 15 years of JGOFS ocean carbon cycle research with a preview of the future of ocean ecology and biogeochemistry.

See you in D.C.!

Hugh W. Ducklow
Chair, International JGOFS Scientific Steering Committee

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Full fathom five thy father lies;
Of his bones are coral made:
Those are pearls that were his eyes:
Nothing of him that doth fade,
But doth suffer a sea-change
Into something rich and strange.

Shakespeare, “The Tempest”
Please join us!

After more than a decade of scientific effort, JGOFS investigations and the synthesis and modeling of their results have changed the paradigms of ocean biogeochemistry and their contribution to the ocean carbon cycle. These changes in our knowledge act as a springboard for future studies in marine biogeochemical cycling and dramatically improve our ability to predict oceanic responses to global and local environmental changes.

The Conference

The conference, titled “A Sea of Change: JGOFS Accomplishments and the Future of Ocean Biogeochemistry,” focuses on the exceptional legacy of JGOFS while also looking ahead to the crucial questions that future programs should address. Its purpose is to provide an opportunity for scientists from around the world to report on what JGOFS has contributed to our larger understanding of the ocean carbon cycle. The format of the conference will include provocative plenary sessions with a number of keynote talks pairing speakers with commentators, and contributed poster sessions.

On behalf of the conference scientific program steering committee, I enthusiastically invite you to participate in this event. We are encouraging contributions in the form of posters, organized around both regional and cross-cutting scientific themes. Poster sessions will be the focus of our activities each afternoon of the conference. Presentations on future programs, an evening public lecture, an education and outreach session, and a conference lunch cruise on the Potomac River overlooking historic Washington, D.C. complete the program.

Deborah K. Steinberg
Chair, Conference Scientific Program Steering Committee

Views of Washington, D.C. from left to right: the Washington Monument, the Jefferson Memorial, and the U.S. Congressional building.
A Sea of Change: JGOFS Accomplishments and the Future of Ocean Biogeochemistry

Scientific Program Steering Committee:

Deborah Steinberg, Chair
Virginia Institute of Marine Science, USA

Véronique Garçon
LEGOS, Centre National de la Recherche Scientifique, France

Peter Haugan
University of Bergen, Norway

David Karl
University of Hawaii, USA

Kon-Kee Liu
National Taiwan University, Taiwan

Bronte Tilbrook
CSIRO Marine Research, Australia

Local Organizing Committee:

Mark Abbott
Oregon State University, USA

Mardi Bowles
U.S. JGOFS Planning Office, USA

Ken Buesseler
U.S. JGOFS Planning Office, USA

Hugh Ducklow
Virginia Institute of Marine Science, USA

Elizabeth Gross
Scientific Committee on Oceanic Research, USA

Roger Hanson
JGOFS International Project Office, Norway

Mary Zawoysky
U.S. JGOFS Planning Office, USA

Clockwise from top left:
Simulated phytoplankton biomass field from a coupled mesoscale physical-biological model (Lima, Olson, and Doney, 2002).
Launching moored instruments from RV Atlantis II. Photo by Craig Dickson.
Diatoms. Photo by Richard Norris.
Plankton net deployment on RV Atlantis II. Photo by Craig Dickson.
### Sunday, 4 May: Early Registration and Reception

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1730-1930</td>
<td>JGOFS Registration and Reception (U.S. National Academy of Sciences)</td>
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</table>

### Day 1—Monday, 5 May

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
</table>
| 0830-0900 | WELCOME AND INTRODUCTION  
Hugh Ducklow, Virginia Institute of Marine Science  
Mark Abbott, Oregon State University |
| 0900-1000 | Reenvisioning the Ocean: The View from Space  
**Speaker:** Mark Abbott, Oregon State University  
**Commentator:** Dave Siegel, University of California, Santa Barbara |
| 1000-1030 | BREAK |
| 1030-1130 | Constraining Fluxes at the Top: Advances in Quantifying Air-Sea Carbon Dioxide Fluxes during the JGOFS Decade  
**Speaker:** Rik Wanninkhof, AOML/NOAA  
**Commentator:** Richard Feely, PMEL/NOAA |
| 1130-1230 | Storage of Carbon in the Oceans: Observational Constraints  
**Speaker:** Doug Wallace, Institut für Meereskunde an der Universität Kiel  
**Commentator:** Nicolas Gruber, University of California, Los Angeles |
| 1230-1400 | LUNCH |

### Session I. OCEAN COLOR TO OCEAN DYNAMICS  
**Chair:** Trevor Platt, Bedford Institute of Oceanography

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
</table>
| 1400-1430 | WOCE – Links to JGOFS Biogeochemistry  
Carl Wunsch, Massachusetts Institute of Technology |
| 1430-1500 | GLOBEC – Links to JGOFS Biogeochemistry  
Roger Harris, Plymouth Marine Laboratory |
| 1500-1530 | SOLAS – Links to JGOFS Biogeochemistry  
Peter Liss, University of East Anglia |
| 1530-1730 | Poster Session I:  
**Theme 1:** Carbon Dioxide, **Chair:** Bronte Tilbrook, CSIRO Marine Research  
**Theme 2:** Ocean Color, **Chair:** Mary-Elena Carr, Jet Propulsion Laboratory  
**Region 1:** North Atlantic, **Chair:** Véronique Garçon, LEGOS, Centre National de la Recherche Scientifique  
**Region 2:** Equatorial Pacific, **Chair:** Robert Le Borgne, Centre Institut de Recherche pour le Developpement  
**Region 3:** North Pacific, **Chair:** Yukihiro Nojiri, National Institute for Environmental Studies |

### Day 2—Tuesday, 6 May

### Session III. ECOSYSTEM STRUCTURE AND DYNAMICS  
**Chair:** Bernt Zeitzschel, Institut für Meereskunde an der Universität Kiel

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 0830-0930 | Plankton Species Determine Biogeochemical Fluxes: From Scenarios to a Global Picture  
**Speaker:** Ulrich Bathmann, Stiftung Alfred-Wegener-Institut für Polar- und Meeresforschung  
**Commentator:** Tony Michaels, University of Southern California |
| 0930-1030 | Co-limitation of Major Phytoplankton Groups by Light and Multiple Nutrients as Control of the Marine Carbon Cycle  
**Speaker:** Hein de Baar, Royal Netherlands Institute for Sea Research  
**Commentator:** Ed Laws, University of Hawaii |
| 1030-1100 | BREAK |
| 1100-1200 | Linking Surface Ocean and the Deep Sea  
**Speaker:** Karin Lochte, Institut für Meereskunde an der Universität Kiel  
**Commentator:** Catherine Jeandel, LEGOS, Centre National de la Recherche Scientifique |
| 1200-1300 | Climate Sensitivity: What Observations Tell Us about Model Predictions  
**Speaker:** Corinne Le Quéré, Max-Planck Institut für Biogeochemie  
**Commentator:** Jorge Sarmiento, Princeton University |
| 1300-1430 | LUNCH |

### Session IV. OCEAN MARGINS AND BENTHIC PROCESSES  
**Chair:** Kon-Kee Liu, National Taiwan University

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 1430-1500 | Examining Human Impacts on Global Biogeochemical Cycling Via the Coastal Zone and Ocean Margins  
Liana Talau-McManus, University of Miami |
| 1500-1530 | Benthic Processes  
Rick Jahnke, Skidaway Institute of Oceanography |
| 1530-1600 | Seeing the Past through JGOFS Spectacles  
Thomas Pedersen, University of British Columbia |
| 1600-1630 | Discussion/Question Period – Kon-Kee Liu, National Taiwan University |
| 1630-1830 | Poster Session II:  
**Theme 1:** Plankton Community Structure, **Chair:** Renato Quiñones, University of Concepción  
**Theme 2:** Euphotic Zone Production/Export, **Chair:** Patrick Monfray, Centre National de la Recherche Scientifique  
**Theme 3:** Time-Series Studies, **Chair:** Tony Knap, Bermuda Biological Station for Research  
**Region 1:** Ocean Margins, **Chair:** Huasheng Hong, Xiamen University |
### Day 3—Wednesday, 7 May

**Session V. DATA ASSIMILATION AND MODELLING**

**Chair:** John Steele, Woods Hole Oceanographic Institution

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830-0900</td>
<td>Modelling Biogeochemical Fluxes in the Ocean – How Far Have We Gotten?</td>
<td>Andreas Oschlies, Institut für Meereskunde an der Universität Kiel</td>
</tr>
<tr>
<td>0900-0930</td>
<td>The Internal Weather of the Sea and its Influences on Ocean Biogeochemistry: Findings from JGOFS Studies</td>
<td>Dennis McGillicuddy, Woods Hole Oceanographic Institution</td>
</tr>
<tr>
<td>0930-1000</td>
<td>Using Inverse Models to Estimate Biogeochemical Fluxes – Achievements and Limitations</td>
<td>Reiner Schlitzer, Stiftung Alfred-Wegener-Institut für Polar- und Meeresforschung</td>
</tr>
<tr>
<td>1000-1030</td>
<td>Discussion/Question Period – John Steele, Woods Hole Oceanographic Institution</td>
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<tr>
<td>1030-1100</td>
<td>BREAK</td>
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</table>

**Session VI. HIGHLIGHTS OF THE JGOFS ERA**

**Chair:** John Field, University of Cape Town

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>1100-1130</td>
<td>Iron Limitation</td>
<td>Phil Boyd, University of Otago</td>
</tr>
<tr>
<td>1130-1200</td>
<td>Death, Decay, and Defecation: The Story of Particle Fluxes in the Sea</td>
<td>Cindy Lee, State University of New York, Stony Brook</td>
</tr>
<tr>
<td>1200-1230</td>
<td>New Technologies and their Roles in Advancing Biogeochemical Science during the JGOFS Era</td>
<td>Tommy Dickey, University of California, Santa Barbara</td>
</tr>
<tr>
<td>1230-1300</td>
<td>Discussion/Question Period – John Field, University of Cape Town</td>
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<tr>
<td>1300-1430</td>
<td>LUNCH</td>
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**Session VII. FUTURE PROGRAMS**

**Chair:** Peter Burkill, Southampton Oceanography Centre

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>1430-1450</td>
<td>Ocean Futures in Biogeochemistry – Julie Hall, National Institute of Water and Atmospheric Research</td>
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<tr>
<td>1450-1510</td>
<td>Role of Ocean Observing Systems in Ocean Research - Larry Atkinson, Old Dominion University</td>
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<tr>
<td>1530-1730</td>
<td>Poster Session III</td>
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<tr>
<td>Theme 1: Mesopelagic, Chair: Richard Lampitt, Southampton Oceanography Centre</td>
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<tr>
<td>Theme 2: Deep Ocean/Benthos/Paleoceanography, Chair: Olaf Pfannkuche, GEOMAR Research Centre</td>
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<tr>
<td>Theme 3: Global Synthesis/Ecosystem Modeling, Chair: Scott Doney, Woods Hole Oceanographic Institution</td>
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<tr>
<td>Region 1: Arabian Sea, Chair: Sharon Smith, University of Miami</td>
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<tr>
<td>Region 2: Southern Ocean, Chair: Paul Tréguer, Institut Université Européen de la Mer</td>
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<tr>
<td>1930-2100</td>
<td>Reception to follow in Museum Rotunda</td>
<td></td>
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</tbody>
</table>

### Day 4—Thursday, 8 May

**Session VIII. OCEAN DYNAMICS IN EARTH SYSTEM SCIENCE**

**Chair:** Hugh Ducklow, Virginia Institute of Marine Science

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830-0930</td>
<td>Why and How We Created JGOFS and the Lessons Learned – Speaker: Peter Brewer, Monterey Bay Aquarium Research Institute</td>
<td>James McCarthy, Harvard University</td>
</tr>
<tr>
<td>0930-1015</td>
<td>Ocean Biogeochemistry in the Earth System — Speaker: Berrien Moore III, University of New Hampshire</td>
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<tr>
<td>1015-1030</td>
<td>Further Discussion/Questions – Hugh Ducklow, Virginia Institute of Marine Science</td>
<td></td>
</tr>
<tr>
<td>1030-1100</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>1100-1200</td>
<td>JGOFS Accomplishments and New Challenges – Speaker: David Karl, University of Hawaii</td>
<td>Mark Abbott, Oregon State University</td>
</tr>
<tr>
<td>1200-1215</td>
<td>Epilogue – Margaret Leinen, National Science Foundation</td>
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<tr>
<td>1300-1600</td>
<td>CONFERENCE BANQUET (Potomac River Lunch Cruise)</td>
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</tbody>
</table>
Registration Information

Registration
All persons planning to attend the Conference are requested to register electronically on the secure website at http://usjgofs.whoi.edu/osc2003.html or via mail or fax by completing the registration form and forwarding it with full payment to:

Ms. Emily Ward
Events Department
Preferred Travel
174 Forbes Road, Suite 112
Braintree, MA 02184 USA
Phone: +1 781-849-6130 ext. 347
or within the US, 800-553-0105 ext. 347
Fax: +1 781-849-2947
E-mail: emily.ward@preftrav.com

All registration forms must be accompanied by payment.

Conference Fees
Participant Registration Fees include:
Admittance to plenary sessions, poster area, and coffee breaks; conference material including data CDs and poster abstracts and presentations on CD; admittance to the Monday evening reception at the U.S. National Academy of Sciences, and Wednesday evening keynote lecture and reception at the Smithsonian National Museum of Natural History.

Accompanying Person Fees include:
Admittance to poster area, conference coffee breaks, the Monday evening reception at the U.S. National Academy of Sciences, and Wednesday evening keynote lecture and reception at the Smithsonian National Museum of Natural History.

Fees do not include lunch. We recommend you order a box lunch on the registration form since there are few restaurants in the vicinity.

Substantial savings apply if the payment and registration forms are received by 15 January 2003. Do not mail in any original registration materials if you register electronically or by fax.

Duplicate registrations will be charged a non-refundable processing fee of US $20.

Payment
All payment to the JGOFS Open Science Conference should be made in US dollars.

Use of major credit cards (Visa, MasterCard) is preferred. Bank checks are also accepted but no personal checks will be accepted.

It is very important that the name of the participant appear on all documents!

Financial Support Request
Limited funding will be available, as partial financial assistance, for Ph.D. candidates, young scientists and selected international participants. See our web page at http://usjgofs.whoi.edu/osc2003/financialaid.html.

Accepted poster presenters must be registered by 15 March 2003.

The deadline for submission of poster abstracts is 15 January 2003.

<table>
<thead>
<tr>
<th>Registration Fees for Delegates</th>
<th>Early Registration Before 15 January 2003</th>
<th>Late Registration After 15 January 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientists</td>
<td>US $ 150</td>
<td>US $ 250</td>
</tr>
<tr>
<td>Students*</td>
<td>US $ 75</td>
<td>US $ 125</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>US $ 25</td>
<td>US $ 25</td>
</tr>
</tbody>
</table>

*Students must be currently enrolled at a university or college with a statement from their advisor to that effect.
**Guidelines for Poster Abstracts**

One may submit only one contributed poster as first author for consideration in the program.

Poster abstracts must be submitted in English, in Times New Roman font, 12 point type and a maximum of 250 words, and include the following information:

- Author(s)' name(s): last name, first name and middle initial(s)
- Institution(s) and address(es)
- Contact e-mail address, telephone and fax numbers
- Poster abstract title
- Abstract
- Select a preferred Regional or Scientific theme from the conference program. Please list a first and second choice.

Important: do not include figures, graphics or equations in the poster abstract.

**Submission**

Poster abstracts must be received no later than **15 January 2003**. The deadline is firm.

Poster abstracts may be submitted either electronically at [http://usjgofs.whoi.edu/osc2003.html](http://usjgofs.whoi.edu/osc2003.html) (strongly recommended) or on a 3.5” diskette for PC. Fax or mailed printed versions will not be accepted. Please send the document as Word (.doc) or text (.txt) only to:

Mary Zawoysky
U.S. JGOFS Planning and Data Management Office
MS-43 Woods Hole Oceanographic Institution
266 Woods Hole Rd.
Woods Hole, MA 02543 USA

Abstracts received are considered final. Please proofread your abstract prior to submission.

**Confirmation**

Poster abstracts submitted electronically will receive a reply confirmation via e-mail. For abstracts submitted on a diskette, please provide contact’s name and means of communication (e.g., fax, etc.).

**Acceptance**

Notification of acceptance will be sent to the designated correspondent by e-mail in early March 2003.

**Conditions**

Submission of an abstract carries with it the obligation to present the poster on the day and at the time assigned by the Program Committee, which may change from the schedule shown here.

Submission of an abstract for the conference is presumed to carry with it permission for JGOFS to reproduce the abstract on the conference web site, on the conference CD, and in any conference programs and reports related to the conference.

**Guidelines for Posters**

The maximum poster size is 4 feet by 4 feet (122 cm. x 122 cm.)

Awards will be given for the best student posters on each day of the conference.

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**Dates to Remember**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Poster Abstract Submission Deadline</td>
<td>15 January 2003</td>
</tr>
<tr>
<td>Acceptance Notification</td>
<td>Early March 2003</td>
</tr>
<tr>
<td>Poster Abstract displayed on the Web Site</td>
<td>Late March 2003</td>
</tr>
<tr>
<td>Poster authors must register</td>
<td>15 March 2003</td>
</tr>
</tbody>
</table>

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Deployment of ocean current meter. Photo by Craig Dickson.
Social Events

We hope that you will join us for the following social events.

Reception and early registration at the U.S. National Academy of Sciences:
Refreshments in the Great Hall on Sunday, 4 May, 1730-1930.

Smithsonian National Museum of Natural History, 10th Street and Constitution Ave., N.W., Wednesday, 7 May: Lecture by Carol M. Browner titled “Global Climate Policy: Where Is The World Headed?” in the Baird Auditorium, followed by a reception in the Rotunda and an opportunity to view selected galleries.

1800-1930 Lecture
1930-2100 Reception

Currently a principal in The Albright Group, a global strategy firm, Ms. Browner served as Administrator of the U.S. Environmental Protection Agency (EPA) in the cabinet of President Clinton from 1993 until 2000. During her tenure as the nation's top environmental officer, she worked to strengthen national pollution standards for land, air and water, to speed up toxic waste cleanup, and to restore the health of degraded ecosystems. An attorney, she was noted for her innovative partnerships with businesses and non-governmental organizations in the search for solutions to long-standing public health and environmental challenges.

Ms. Browner received her undergraduate and law degrees from the University of Florida and served as secretary of the Florida Department of Environmental Regulation for several years before her appointment as EPA Administrator. She also served as chair of the U.S.-Canada-Mexico Commission on Environmental Cooperation. She is a senior fellow of the Aspen Institute and a member of the board of the National Audubon Society.

Luncheon Cruise
Immediately after the end of the conference on Thursday, 8 May, buses will transport us to the dock of the sleek newly-built boat, Nina’s Dandy, in Alexandria, where we will board at 1 pm for a tour along the Potomac River. A buffet lunch will be served.

Like the river boats of Paris, France, Nina’s Dandy was designed to pass under the low-arched stone bridges of the Potomac, cruising past Washington’s famous monuments to Georgetown and back to beautiful, historic Old Town Alexandria.

Because space is limited and we expect it to fill quickly, we encourage early reservations at the time of registration. The price is $12 to participate in the luncheon cruise ($25 for accompanying persons).

Conference Web Sites and Contact Information

For General Information:
Mary Zawoysky
U.S. JGOFS Planning and Data Management Office
MS-43 Woods Hole Oceanographic Institution
266 Woods Hole Rd.
Woods Hole, MA 02543 USA
Phone: +1 508-289-2834
Fax: +1 508-457-2161
E-mail: mzawoysky@whoi.edu

For Hotel and Registration Information:
Emily Ward
Events Department
Preferred Travel
174 Forbes Road, Suite 112
Braintree, MA 02184 USA
Phone: +1 781-849-6130 ext. 347
or within the US 800-553-0105 ext. 347
Fax: +1 781-849-2947
E-mail: emily.ward@preftrav.com
Hotel and Travel Information

Accommodations
May is a very busy time in Washington, D.C., so please book your reservations early! The Conference Organizing Committee has reserved a block of rooms for the Conference at the State Plaza Hotel, a 5-minute walk to the meeting site, the Melrose Hotel, a 15-minute walk to the meeting site, and the Crystal City Courtyard by Marriott, a 15-minute metro ride and a 15-minute walk to the meeting site. Please visit the conference web site for more information. Hotel reservations will be handled on a “first come, first served” basis. The room blocks will be released on April 1, 2003 so please reserve your room early.

Hotel Reservations
Your hotel reservation must be booked via our conference web site or reservation form and guaranteed with your Visa, MasterCard or American Express credit card. We will confirm your hotel reservation along with your conference registration by e-mail or fax. If Preferred Travel has not received your hotel payment, no room will be booked.

How to get to Hotels and Conference Center
The U.S. National Academy of Sciences is located in Washington, D.C., on C Street between 21st Street, N.W. and 22nd Street, N.W. The Academy is near the State Department and the National Mall/Vietnam Veterans Memorial. You will need a photo identification to be allowed into the NAS building. U.S. National Academy of Sciences Web site: http://www.nationalacademies.org/about/contact/nas.html

The State Plaza Hotel
2117 E. Street N.W., Washington, D.C. 20037
http://www.washingtonplazahotel.com/sp

The Melrose Hotel
2430 Pennsylvania Avenue, NW
Washington, D.C. 20037
http://www.melrosehotel.com/washington/home.html

The Crystal City Courtyard by Marriott
899 Jefferson Davis Highway
Arlington, VA 22202

Air Travel
To take advantage of air travel discounts to the conference, please contact Preferred Travel at +1-781-849-6130, ext. 315, or in the U.S., 800-553-0105, ext. 315. Please mention that you are attending the JGOFS Open Science Conference.

Official Letter of Invitation
If you need an official letter of invitation to attend the conference, write to Mary Zawoysky at +1-781-849-6130, ext. 315, or in the U.S., 800-553-0105, ext. 315. Please mention that you are attending the JGOFS Open Science Conference.

Liability and Insurance
Neither the organizers, the meeting planners, nor the hotels are able to take any responsibility whatsoever for injury or damage to persons or property during the conference. Participants are therefore advised to take out their own insurance.

<table>
<thead>
<tr>
<th>HOTEL</th>
<th>Single room/night</th>
<th>Double room/night</th>
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<tbody>
<tr>
<td>State Plaza</td>
<td>$140 plus tax</td>
<td>$140 plus tax</td>
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<tr>
<td>Melrose</td>
<td>$148 plus tax</td>
<td>$148 plus tax</td>
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<tr>
<td>Crystal City Courtyard</td>
<td>$115 plus tax</td>
<td>$120 plus tax</td>
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Cancellations and Refunds

<table>
<thead>
<tr>
<th></th>
<th>Registration Fee &amp; Events</th>
<th>Hotel Accommodations</th>
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</thead>
<tbody>
<tr>
<td>Before April 1, 2003</td>
<td>Full refund*</td>
<td>Full refund*</td>
</tr>
<tr>
<td>After April 1, 2003</td>
<td>No refund</td>
<td>1 night charge</td>
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*Less a $50 administration fee. All cancellations must be submitted in writing (e-mail or fax) to Preferred Travel at the address given on page 10.