



THE OCEANOGRAPHY SOCIETY (TOS)  
AND  
INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (IOC)  
MEETING ON  
“COASTAL AND MARGINAL SEAS”  
June 1–4, 1998 • UNESCO Headquarters • Paris, France

**T**OS and IOC, in observance of the International Year of the Ocean and the TOS 10th anniversary, announce their first jointly sponsored meeting, which will explore the theme “Coastal and Marginal Seas.” With a strong multidisciplinary scientific program, a format that encourages interaction, social events and the choice of Paris, with its unique charm, history and attractions, as the site—TOS and IOC offer a valuable, informative and enjoyable meeting. Plan now to join your colleagues in Paris at one of the major oceanographic meetings of 1998.

#### MEETING FORMAT

The meeting format will feature daily morning plenary sessions of invited talks followed by afternoons devoted to contributed posters focusing on (but not limited to) the day’s themes. Commercial and educational exhibits will be co-located with the contributed posters. One, possibly two, evening receptions, daily morning and afternoon coffee breaks are included in the registration fee and are an integral part of the TOS interactive format. Students are invited to attend and participate. Fifty students will be permitted to register at half the applicable regular registration fee. The half-price student registrations will be allocated on a first-come basis, with preference given to students submitting abstracts and presenting posters.

Some financial support will be available from SCOR for oceanographers from developing countries; applications for this support must be received at TOS headquarters by *February 1, 1998*.

#### CALL FOR POSTER ABSTRACTS General Information

Poster abstracts will be accepted for review *November 1–March 15, 1998*. Abstract titles and content need *not* be specific to one of the broad session themes as indicated in the program. Poster abstracts relating to the theme of a given day will be presented on that day. Poster abstracts not specific to any of the themes will be presented on the day assigned them by the Abstract Manager, but every attempt will be made to assign posters for presentation on the day preferred by the author(s). TOS, however, must reserve the right to make the final assignments in order to balance the number of posters over the course of the meeting. All participants, including poster presenters, must register for the meeting.

Submitted abstracts relating to one of the daily themes or subthemes will be reviewed by the appropriate Session Chair or by the Program Chair for titles outside session themes and subthemes. The Chairs will determine which abstracts are accepted for poster presentation and inclusion in the abstract volume. Abstract acceptance notices will be issued no later than *April 15, 1998*. Every effort will be made to issue early abstract acceptances to those who submit abstracts early. If your attendance at the meeting is predicated upon acceptance of your abstract, it is to your advantage to submit your abstract early or, if your abstract is submitted close to the deadline, make provisional lodging and travel arrangements.

#### Abstract Format

Abstracts are limited to 250 words, including title and author(s) information (name[s], affiliation[s], and address[es]). An e-mail address for the first author is

requested. Overly long abstracts will be returned to the author for editing.

#### Abstract Submissions

Electronic mail is the preferred method for submitting abstracts and will ensure the quickest acceptance notification. Abstracts may also be submitted via FAX, mail or other delivery service for an additional charge (see below).

#### E-mail and FAX Submissions

Submit abstracts via electronic mail to: (1) TOS headquarters (J.Rhodes@tos.org) *and*, (2) to the Session Chair of the session to which your abstract relates *or* the Program Co-chair if unrelated to any of the daily themes or subthemes. Submit abstracts via e-mail as text files (no “attachments”). Abstracts submitted in this manner must include credit card information, as requested below, on the copy sent to TOS headquarters.

#### Session Chairs

(note: e-mail addresses shown are only good for the TOS-IOC meeting)

Day 1: Small Scale Processes—Thomas Kjørboe—T.Kjørboe@tos.org

Day 2: Medium Scale Processes—John Simpson—J.Simpson@tos.org

GOOS Special Session—Colin Summerhayes—C.Summerhayes@tos.org

Day 3: Regional Scale Processes—Sharon Smith—S.Smith.Sharon@tos.org

Program Co-chair: Ken Brink—K.Brink@tos.org

#### Mail or Delivery Service Submissions:

Submit in duplicate with check, money order or credit card information to *The Oceanography Society, 4052 Tim-*

ber Ridge Drive, Virginia Beach, VA 23455, USA; E-mail: J.Rhodes@tos.org; FAX: 757/464-1759; Tel: 757/464-0131.

With all submissions, please provide the following information on the copy that is sent to TOS:

- If paying by credit card (Mastercard/Eurocard or VISA only), indicate account number, expiration date and name that appears on the card.
- Name, address, e-mail address, phone number, and fax number of the person to receive notification and poster instructions.
- Session to which the abstract relates or preferred day of presentation if the abstract does not relate to a session theme or subtheme.

#### Abstract Fees

The abstract fee is **US\$60** (US\$30 for students) for abstracts submitted via e-mail or **US\$75** (US\$36) for those submitted by any other means. The fee covers the cost of poster boards as well as processing and publication of abstracts in the abstract volume that is distributed during and after the meeting. Payment must be made at the time the abstract is submitted and can be made with check or money order payable to "The Oceanography Society" (in U.S. funds, drawn on a U.S. bank) or credit card (Mastercard/Eurocard or Visa only). Abstracts submitted via electronic mail must be paid with a credit card for which the account number and expiration date are provided when the abstract is transmitted. We regret that we are unable to process training or purchase orders and cannot issue invoices for payment. Fees for abstracts that are not accepted will be refunded. Revisions to abstracts are discouraged; revised abstracts must be treated as new submissions and the applicable abstract fee will be charged again.

#### Poster Supports

TOS will provide each presenter with a poster frame on which foam core board is hung. The foam core display area will be 1.5m (59 in.) wide by 2m (79 in.) high. Posters can be mounted on the foam core board with push pins, tacks or velcro dots (to be provided by poster presenter).

#### Abstract Publication

The meeting program and abstracts will be published in an issue of the TOS publication, *Oceanography*, and abstracts may be cited as published in *Oceanography* after the meeting.

#### REGISTRATION

All participants, including poster presenters, must register for the meeting. To register for the meeting, complete the attached registration form. Mail or fax it with appropriate payment or credit card information to our official registration contractor: **E. H. Pechan & Associates** (address shown below). You will receive confirmation of registration and subsequent meeting details from Pechan & Associates.

The deadline for receipt by Pechan & Associates of advance registration is **May 9, 1998**. Registration after that deadline must be done on-site with a 20% surcharge. We regret we are unable to process training or purchase orders and cannot issue invoices for payment. Notification of cancellations must be received in writing by Pechan & Associates no later than **May 9, 1998**. Refunds are subject to a \$25 cancellation fee. Receipts for the registration fee will be printed on the back of meeting badges which will be distributed at the meeting.

The registration fee covers attendance at all scientific and social functions, including, coffee and soft drink breaks during the plenary and poster/exhibit sessions, and a reception hosted by IOC, TOS and the U.S. Office of Naval Research, International Field Office, Europe (ONRIFO) on Tuesday June 2, at UNESCO headquarters. The possibility of additional evening receptions is being explored at this writing. Each registrant will receive his/her badge and a volume containing the final Meeting Program, Abstracts and Exhibits Directory at the meeting.

For additional registration information, contact: **E. H. Pechan & Associates, 5537-C Hempstead Way, Springfield, VA 22151, USA; Telephone: 703/813-6700, ext. 131; Fax: 703/813-6729; E-mail: tos98reg@tos.org**

#### HOTEL ACCOMMODATIONS

June is normally a very busy period for Paris hotels and will be even more so in June 1998 due to World Cup games being played in Paris and around France over the meeting dates. Arrangements have been made, however, with **A.T.I. Congrès & Salons** whereby rooms in various 2-, 3-, and 4-star hotels around the city are blocked for the TOS-IOC meeting participants. The deadline for reservations within the TOS room block is **May 20, 1998**. Hotel reservations are to be made by the attendee directly with A.T.I. The enclosed Hotel Booking Form is provided for your

convenience but if you choose to telephone, be certain to identify yourself as a TOS-IOC meeting participant in order to be included in this special room block. Reservations made after the deadline date are subject to availability and, if available, will be at the regular (higher) commercial rates. All reservations must be prepaid in full. Cancellations must be handled through A.T.I., not with the hotel directly.

Hotels in the TOS-IOC room block are located in concentric circles around UNESCO headquarters (Eiffel Tower area). Rooms will be assigned by A.T.I. on a first-come-first-served within the price range and area(s) specified. The earlier your reservation is made, the closer you are likely to be to UNESCO. While it will be impossible to house all meeting attendees within walking distance of UNESCO, the Paris Metro provides an efficient, inexpensive means for getting around the city. Your hotel confirmation from A.T.I. will include a map of Paris, a Metro map and the name of the nearest Metro station which will enable you to plan your travel between your hotel and UNESCO. **We urge you to make reservations early** to ensure accommodations in the area and price range you desire. Please read the enclosed Hotel Booking Form carefully and follow the instructions it contains.

#### SPOUSE PROGRAM

Through A.T.I., optional full and half day spouse tours, featuring many of the attractions in and around Paris, will be available. The program is currently being developed. When finalized, descriptions of the tours and a reservation form will appear on the TOS web site (<http://www.tos.org>).

#### CALL FOR EXHIBITS

Commercial and educational exhibits will be co-located with the daily poster presentations at UNESCO headquarters. A separate brochure outlining the fee structure for exhibit space rental is available. Space can be rented as "space only" for organizations wishing to bring free-standing exhibits or with hard-sided panels in the European exhibition style. To request the exhibits brochure containing full information, please contact TOS headquarters—telephone: 757/464-0131; Fax: 757/464-1759; E-mail: J.Rhodes@tos.org

#### WEB SITE UPDATES

The information contained here is also available on the TOS web site (<http://www.tos.org>). Any program or informational updates will be posted there also.

## DAILY MEETING SCHEDULE

All scheduled events and sessions will be held at UNESCO Headquarters, 7, place de Fontenoy, 7th arrondissement, Paris. Program below is subject to modification.

Registration:	2:00–6:00 pm (1400–1800 hrs.) 7:30 am–6:00 pm (0730–1800 hrs.) 8:00–11:00 am (0800–1100 hrs.)	Sunday, May 31 Monday–Wednesday, June 1–3 Thursday, June 4
Plenary Sessions:	9:00 am–12:30 pm (0900–1230 hrs.)	Monday–Thursday, June 1–4
GOOS Special Session:	4:00–7:00 pm (1600–1900 hrs.)	Tuesday, June 2
Posters and Exhibits:	1:30–6:00 pm (1330–1800 hrs.)	Monday–Wednesday, June 1–4
IOC/TOS/ONRIFO Reception:	7:00–8:30 pm (1900–2030 hrs.)	Monday, June 1
TOS Annual Business Meeting:	3:30–4:30 pm (1530–1630 hrs.)	Wednesday, June 3

TOS and IOC gratefully acknowledge the support of the meeting co-sponsors

American Geophysical Union (AGU)  
American Meteorological Society (AMS)  
American Society of Limnology and Oceanography (ASLO)

Canadian Meteorological and Oceanographic Society (CMOS)  
Challenger Society for Marine Science (CSMS)  
Marine Technology Society (MTS)  
Scientific Committee on Oceanic Research (SCOR)

## DAILY PROGRAM

### MONDAY, JUNE 1

Morning Plenary—SMALL SCALE PROCESSES: TURBULENCE, PARTICLES AND TRANSFORMATIONS  
Session Chair: **Thomas Kiørboe**—Danish Institute for Fisheries Research, Copenhagen, Denmark

- APPLYING COAGULATION THEORY TO UNDERSTAND OCEANIC PARTICLE DYNAMICS—**George A. Jackson**, Texas A&M University, USA
- LIMITS OF FLOC SIZE IN COASTAL OCEANS—**Paul S. Hill**, Dalhousie University, Canada
- DIFFUSION LIMITATION IN THE PELAGIC ENVIRONMENT—**Helle Plough**, Max Planck Institute for Marine Microbiology, Germany
- SMALL SCALE SOLUTE DYNAMICS AT THE BENTHIC INTERFACE—**Ronnie Glud**, University of Copenhagen, Denmark
- THE INTERACTION OF BIOLOGICALLY AND PHYSICALLY FORCED FLUID MOTION ON THE SENSORY HORIZON OF COPEPODS—**David M. Fields**, University of Wisconsin at Milwaukee, USA
- SMALL SCALE HYDRODYNAMICS OF PARTICLE AND ODORANT CAPTURE IN ANIMALS—**M.A.R. Koehl**, University of California Berkeley, USA

### TUESDAY, JUNE 2

Morning Plenary—MEDIUM SCALE PROCESSES: TRANSPORTS, PHYSICAL STRUCTURES AND PLANKTON DISTRIBUTIONS  
Session Chair: **John Simpson**, University of Wales, Bangor, School of Ocean Sciences, Anglesey, UK

- SEEING THE NORTH SEA BY “RIDING THE WAVES”—**David Prandle**, Proudman Oceanographic Laboratory, UK
- COLD POOL CIRCULATIONS IN SHELF SEAS—**Ed Hill**, University of Wales-Bangor, UK
- CIRCULATION AND MIXING OVER BANKS—**John Loder**, Bedford Institute of Oceanography, Canada
- MICROPLANKTON, ORGANIC CYCLING AND PHYSICAL PROCESSES IN SHELF SEAS—**Paul Tett**, Heriot Watt University, UK
- DYNAMICS OF FINE SEDIMENTS: OBSERVATIONS, PROCESSES AND MODELLING—**Jurgen Sundermann**, Institut für Meereskunde, Germany
- THE EFFECTS OF RIVERS ON THE CIRCULATION IN LARGE ESTUARIES AND COASTAL SEAS—**James O'Donnell**, University of Connecticut, USA

Afternoon Plenary—GOOS  
Session Chair: **Colin Summerhayes**, IOC, France

- THE IMPLEMENTATION OF GOOS—**Colin Summerhayes**, IOC, UNESCO, France
- COASTAL GOOS—**Thomas Malone**, University of Maryland, USA
- BLUE WATER GOOS: PIRATA—**Janice Trotte**, IOC, UNESCO, France
- BLUE WATER GOOS: GODAE—**Neville Smith**, Bureau of Meteorology Research Centre, Australia
- LIVING MARINE RESOURCES—**George Grice**, IOC, UNESCO, Paris
- EUROGOOS—**Nic Flemming**, Southampton Oceanography Centre, UK

### WEDNESDAY, JUNE 3

REGIONAL SCALE PROCESSES: CIRCULATION, BUDGETS AND POPULATION DYNAMICS  
Session Chair: **Sharon Smith**, University of Miami, USA

- PROCESSES AFFECTING THE FATE OF AMAZON DISCHARGE—**Charles A. Nittrouer**, State University of New York at Stony Brook, USA
- THE BENGUELA CURRENT SYSTEM: CIRCULATION AND PRODUCTIVITY—**John G. Field**, University of Cape Town, South Africa
- THE BARENTS SEA: INTERDECADAL VARIABILITY IN ECOSYSTEM ENERGETICS AND PRODUCTIVITY—**Egil Sakshaug**, University of Trondheim, Norway
- DYNAMICS OF THE BLACK SEA ECOSYSTEM: RECENT RESULTS—**Umit Unluata**, Middle East Technical University, Turkey
- A QUARTER-CENTURY OF PROGRESS IN COASTAL UPWELLING RESEARCH—**Richard T. Barber**, Duke University, USA

### THURSDAY, JUNE 4

POLICY AND LATE-BREAKING EVENTS  
Session **Kenneth Brink**, Woods Hole Oceanographic Institution, USA  
Co-chairs: **Katherine Richardson**, Danmark's Fiskeriundersøgelser, Denmark

To include timely topics and late-breaking news, the speakers and talk titles for this session will be determined closer to the meeting dates and will be announced on the TOS web site.



THE OCEANOGRAPHY SOCIETY

ADVANCE REGISTRATION FORM

TOS-IOC MEETING
Marginal and Coastal Seas
June 1-4, 1998 • Paris France

Name (for badge)
Institution (for badge)
Address
City/State/Mail Code/Country
Electronic Mail Address
Telephone (specify home or business) Fax

A Spouse/Guest badge will be necessary for admission to the Monday night reception for those not registered for the meeting

Spouse/Guest name:

I am a member of the following sponsoring or co-sponsoring organization(s) and entitled to registration at the TOS member rate:

- TOS IOC AGU AMS ASLO CMOS CSMS MTS SCOR

Days attending: Monday Tuesday Wednesday Thursday

Advance Registration Fee: Registration form, with payment, must be received by Pechan & Associates by May 9, 1998. Registration after May 9 must be done on-site. (Check applicable fee category below.)

Table with 4 columns: Meeting Type, Membership Category, Fee Amount, and Student Category. Rows include Full Meeting and One Day Only options.

\* Includes TOS membership if application completed and returned at the meeting.

TOTAL REGISTRATION FEE: US\$

My check payable to The Oceanography Society (in US\$, drawn on a U.S. bank) is enclosed OR

Charge my credit card

Amex Card Number
Visa Expiration Date
Mastercard Signature
Discover Name on the card (print)

On-Site Registration Fee: 20% will be added to the applicable Advance Registration Fee shown above.

MAIL OR FAX THIS FORM with payment or credit card information (to arrive on or before May 9, 1998) TO:

E. H. Pechan & Associates, Inc., Attention: TOS Meeting, 5537-C Hempstead Way, Springfield, VA 22151. USA; FAX 703/813-6729. If sending via fax, credit card information must be included.

Please photocopy this page to avoid damaging your magazine.

# HOTEL BOOKING FORM

## TOS-IOC Coastal and Marginal Seas Meeting June 1-4, 1998 • UNESCO Headquarters • Paris, France

The rooms in the TOS-IOC block with A.T.I. are located in concentric circles around UNESCO headquarters (Eiffel Tower area). Rooms will be assigned on a first-come-first-served basis within the area and price range specified. There are insufficient rooms to house all meeting participants available in the area immediately around UNESCO and others may rather stay in another area, so it is important to indicate a first, second and third choice on hotel location. The cut-off date for reservations within the TOS-IOC room block with A.T.I. is May 20, 1998.

### RESERVATION

All prices listed below are per night, breakfast, city tax and V.A.T. included. All rooms in the block have private bath and toilettes, color TV, direct dial telephone, and individual mini-fridge.

4-star hotel ★★★★★	<input type="checkbox"/> 1550 FF/single	<input type="checkbox"/> 1850 FF/double-twin
3-star hotel ★★★	<input type="checkbox"/> 680 FF/single	<input type="checkbox"/> 720 FF/double-twin
2-star hotel ★★	<input type="checkbox"/> 520 FF/single	<input type="checkbox"/> 560 FF/double-twin

Select Area choices (1st, 2nd and 3rd):  Eiffel Tower  Latin Quarter  Montparnasse  Champs Elysees/Etoile

Arrival date \_\_\_\_\_ Departure date \_\_\_\_\_

Room Type:  Single  Double (1 large bed)  Twin (2 separate beds) Number of Rooms: \_\_\_\_\_

Name \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

City: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

The special rates shown are only available through A.T.I. Confirmation of reservations, with the name, description and directions to your hotel, as well as a map of Paris and the Paris Metro, will be sent to you by A.T.I.  
For any modification to your reservation, please contact A.T.I., not the hotel.

### PAYMENT

Payment in full, via credit card, bank wire transfer\*, international money order or check in French francs (Eurocheques not accepted), must be made when the reservation is booked.

Price × Number of rooms × Number of nights: = \_\_\_\_\_ FF

Handling charge (non-refundable): + \_\_\_\_\_ 50 FF

Cheque enclosed for or Total to be charged to: \_\_\_\_\_ FF

Visa  American Express  Diners Club  Mastercard/Eurocard

Credit Card No: \_\_\_\_\_ Exp. date: \_\_\_\_\_

Signature: \_\_\_\_\_

\* Please contact A.T.I. for information on paying by bank wire transfers

### CANCELLATION POLICY

- Cancellations on or before May 20, 1998 will result in a refund of amount paid minus 200 FF cancellation fee.
- There will be no refunds for cancellations after May 20, 1998.
- Early checkouts are not refundable.

### ACCEPTANCE OF RESERVATION CONDITIONS

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

RETURN BY MAY 20 TO: A.T.I. CONGRÉS & SALONS, 1 Villa Boissière, 75116 Paris, France  
Fax: 33-(0)1-47-27-05-87; Telephone: 33-(0)1-47-27-15-15;  
E-mail: 106101-1543@compuserve.com (for information only)

Please photocopy this page to avoid damaging your magazine.