

**24th  
Annual International Gravitational  
Physiology Meeting**

**4 - 9 May, 2003  
Four Points by Sheraton Santa Monica  
California, USA**

**Sponsored by the  
International Society for Gravitational Physiology**

**Final Announcement  
and  
Call for Papers**



**Abstract Deadline – 15 February, 2003**

## **IMPORTANT DEADLINES**

### **Abstract Submission**

Air Mail Abstract form

to be received by 15 February, 2003

Original to Dr. Peter Norsk with a copy to  
Dr. Charles A. Fuller at addresses on the Form.

### **Registration**

Air Mail or fax Registration Form

to be received by 1 March, 2003

to Dr. Reggie Edgerton, with payment  
to be received as indicated on the Form.

*Note: Registration fees are higher after this date.*

### **Hotel Reservation**

Place Hotel Reservations

by 3 April, 2003

### **Social Events**

Our program will include:

*Welcome Reception*

*Gala Dinner*

*Regional Tour*

**Copies of the Call Forms and additional information can be  
downloaded from the ISGP website (<http://www.isgp.org>)**

Please pay Registration Fee by 1 March, 2003 either by:

Certified Bank Check or personal check drawn from a US bank  
payable in US dollars to:

“International Society for Gravitational Physiology”

Mail registration fee, including Registration Form to:

V. Reggie Edgerton

Departments of Physiological Science and Neurobiology

University of California

621 Charles E. Young Drive South

Los Angeles, CA 90095-1527

**OR**

Electronic Bank Transfer

payable in US dollars

*The following information must be included  
with electronic bank transfer:*

Name of registrant

International Society for Gravitational Physiology

621 E. Young Drive South

Los Angeles, CA 90095

Bank Routing Number: 122000496

Account Number: 0360030091

Bank Address:

Union Bank of California

Westwood #6

1310 Westwood Blvd.

Los Angeles, CA 90024

Phone: +1-800-238-4486

24th Annual International Gravitational Physiology Meeting  
4 - 9 May, 2003, Santa Monica, CA



INTERNATIONAL SOCIETY FOR  
GRAVITATIONAL PHYSIOLOGY

Registration Form

Air Mail or fax by 1 March, 2003 to:

V. Reggie Edgerton  
Departments of Physiological Science and Neurobiology  
University of California  
621 Charles E. Young Drive South  
Los Angeles, CA 90095-1527  
Phone: +1-310-825-4780  
Fax: +1-310-267-2071  
Email: vre@ucla.edu

(PLEASE PRINT OR TYPE)

Family Name \_\_\_\_\_ First Name \_\_\_\_\_

Institution \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail Address \_\_\_\_\_

Preferred means of communication:  Fax  Email (Registration must include at least one of these)

- |  |   |
|--|---|
| <input type="checkbox"/> Registrant (before 1 March, 2003)- \$250 USD                          | <input type="checkbox"/> Attend Welcome Reception |
| <input type="checkbox"/> Registrant (after 1 March, 2003)- \$300 USD                           | <input type="checkbox"/> Attend Gala Dinner       |
| <input type="checkbox"/> Student - \$75 USD<br>(Please provide verification of student status) | <input type="checkbox"/> Attend Regional Tour     |
| <input type="checkbox"/> Guest Registrant - \$125 USD  |   |

Guest Name(s): \_\_\_\_\_

Please indicate by ✓

- I(We) have sent the certified bank check or personal check to Dr. Edgerton at the address above.
- I(We) have remitted the grand total of \$ \_\_\_\_\_ USD, on \_\_\_\_\_ (date) through my bank \_\_\_\_\_ (name of bank) to the account on the next page.

COUNCIL OF TRUSTEES

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Telefax: + 45 35 45 76 27  
E-mail: pnorsk@rh.dk

Future Meetings

2004 - Russia

16 October, 2002

Dear Colleague:

The International Society for Gravitational Physiology (ISGP) invites the participation of all interested biological scientists to present investigative results in gravitational physiology at the 24th Annual International Gravitational Physiology Meeting to be held in Santa Monica, California May 4-9, 2003. The meeting will be hosted by Dr. V. Reggie Edgerton, Director of the Brain Research Institute and Professor of Physiological Science and Neurobiology, University of California, Los Angeles.

Open sessions will be arranged for slide and poster presentations of voluntary papers dealing with the effects of changes in magnitude and direction of the force environment on the physiology and behavior of humans, animals, plants, and cells. The effects of weightlessness during space flight, acute and chronic acceleration, impact, vibration, and the various forms of simulated weightlessness are included, as well as consideration of the evolutionary consequences of gravity and the role of gravity in the manifestations of scale effects in animals and plants.

Four half-day symposia with invited papers in gravitational physiology will be organized as follows:

**Current Concepts in Gravitational Physiology**

**Effects of Gravity on Neurobiological Systems**

**Effects of Gravity on Plant Physiology**

**Models of Degenerative Diseases as Analogs of Gravitational Adaptation**

It is planned to publish the Proceedings of the meeting, which will contain the voluntary papers and invited symposia papers as a part of the *Journal of Gravitational Physiology*.

Your participation in the meeting is welcomed. If you wish to participate, either with or without the presentation of a paper, please consult the instructions regarding registration, accommodation, and submission of abstracts, which are provided in the brochure. The deadline for receipt of abstracts is 15 February, 2003.

Peter Norsk, M.D.  
Chairman, Council of Trustees

# 24th Annual International Gravitational Physiology Meeting

## 4 - 9 May, 2003, Santa Monica, California

### General Information

#### Organizers

The 24th Annual International Gravitational Physiology Meeting is organized and sponsored by the International Society for Gravitational Physiology (ISGP). Professor V. Reggie Edgerton, President of ISGP, and the Local Organizing Committee are pleased to be the local hosts for the meeting.

#### Presentation and Publication of Papers

Voluntary papers will be accepted for presentation provided an abstract (in English) is submitted in advance. Oral presentations will be scheduled for the invited symposia and free paper (10 minute) sessions. Slide, LCD and overhead transparency projectors will be available for oral presentations. Poster presentations will be available on boards, measuring approximately 122 cm (4 ft) high and 122 cm (4 ft) wide. At least one Author is expected to be present at the poster during the allotted time. Selection priority for mode of presentation will be given to those participants who pre-register (including registration fee).

Please observe the instructions for preparation of the abstracts. Abstracts must be submitted on the enclosed *Abstract Form*. The Program and abstracts will be printed for distribution to registrants at the beginning of the Meeting. To appear in the Program, the abstracts must be received at the addresses listed on the *Abstract Form* on or before **15 February, 2003**. Papers presented at the Meeting will be published as the Meeting Proceedings in an issue of the *Journal of Gravitational Physiology* (papers not presented by an author will not be published). **Instructions for the preparation of manuscripts will be provided to all participants who submit abstracts.**

#### Registration and Participation

To facilitate the organization of the meeting, all participants are asked to register by completing the Registration Form and returning it by air mail or fax for receipt on or before 1 March, 2003. Registration fees are \$250 (USD) for participants (\$300 after 1 March, 2003), \$75 for students, and \$125 for guests. Advance Payment, payable in US currency, should be sent with the *Registration Form* to Reggie Edgerton, at the address indicated. The payment may be made by bank check or electronic bank transfer, as indicated on the *Registration Form*. An 80% refund of registration fees will be made only for cancellations arriving by 1 April, 2003.

Meeting check-in and on-site registration will take place at the Four Points Sheraton Santa Monica Hotel from 15:00 to 18:00, Sunday, 4 May, 2003 and continue daily from 08:00 to 17:00, 5 - 8 May, 2003. Only participants clearly wearing their badges will be admitted to the Meeting Room.

#### Social Events

Registration includes the following: Welcome Reception on Sunday, 4 May, beginning 19:00 at Four Points by Sheraton Santa Monica; Gala Dinner on Wednesday evening, 7 May; and a regional tour on 9 May. The tour will begin with a drive along the Pacific Coast Highway and a tour of Will Rogers State Park. We will continue through Beverly Hills, stopping at Mann's Chinese Theatre, Kodak Theatre and the Walk of Fame. The afternoon will be spent at the La Brea Tar Pits and an art museum.

#### Place of Meeting

Four Points by Sheraton Santa Monica  
530 West Pico Boulevard  
Santa Monica, CA 90405  
Phone: +1-310-399-9344 Fax: +1-310-399-2504  
Web Site: <http://www.fourpoints.com/santamonica>

### HOTEL/AIRPORT TRANSPORTATION

#### From Los Angeles International Airport

Exit onto Sepulveda North. Veer left at fork to Lincoln Boulevard Follow Lincoln for 7 Miles to Pico Boulevard and turn left (west). The hotel is on the left (south) side on Pico between Lincoln and 4th Street.

#### Airport Shuttle/Taxi Information

LAX Airport Shuttle ([www.laxairportshuttle.com](http://www.laxairportshuttle.com)) Phone: +1-800-311-5466, \$32.00 each way.

LAX Shuttle and Limosine ([www.laxshuttlelimo.com/services.htm](http://www.laxshuttlelimo.com/services.htm)) Phone: +1-877-529-7433, \$35.00 each way (towncar).

Supershuttle, email: [LAXsales@supershuttle.net](mailto:LAXsales@supershuttle.net), Phone: +1-310-222-5553

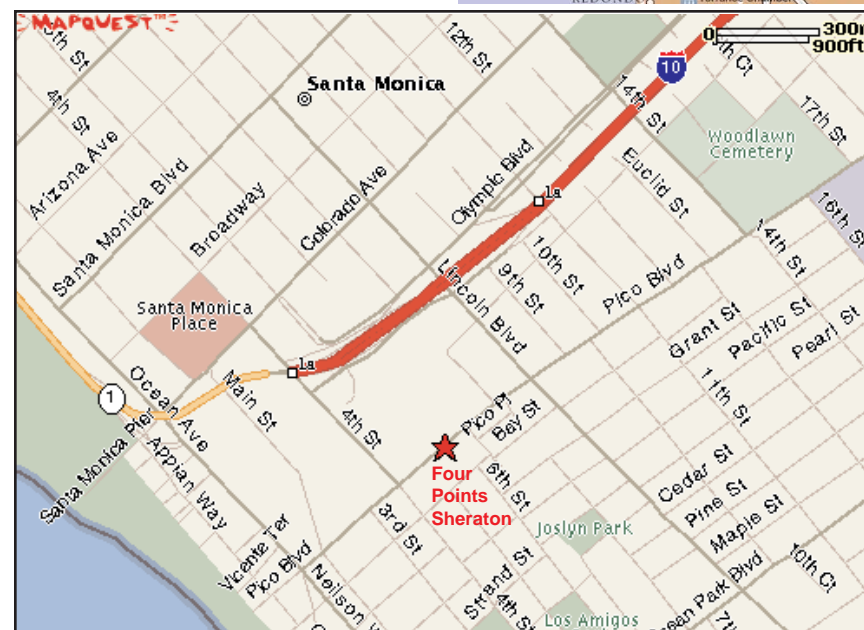
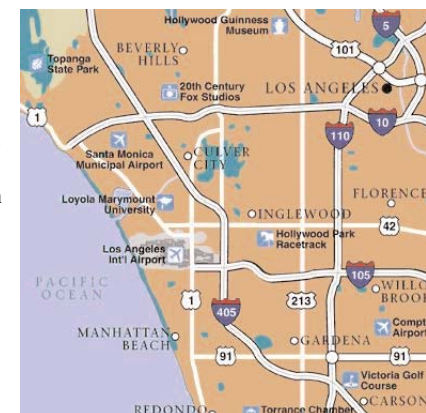
Apollo Airport Shuttle, Phone: +1-800-342-9949

Chequer Shuttle, Phone: +1-310-215-9950

Prime Time Shuttle, Phone: +1-800-733-8267

Reservations should be made in advance for shuttle services. Taxi's are available at a cost of \$30-\$35 each way. Public transportation is also available on the Big Blue Bus. ([www.bigbluebus.com](http://www.bigbluebus.com)) Take Bus #3 from LAX transit station to Pico and 4th.

Note: Specify Four Points by Sheraton SANTA MONICA, as there is also a Four Points near the Los Angeles Airport.



## Four Points by Sheraton Reservation Form

(Please give to Reservations Department to enter) or FAX to: +1-310-399-2504

Date of Arrival \_\_\_\_\_ Departure Date: \_\_\_\_\_

Number of Guests in Room \_\_\_\_\_ Rate Confirmed: \$110

Type or Room:  smoking  non-smoking Cut-off Date: April 4, 2003

one bed:  two beds

Group 24th ISGP - Conference May 4-9, 2003

Guest Name : \_\_\_\_\_  
(Family Name) (Given Name)

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Room rate quoted does not include 12.045% room tax

Payment for hotel accommodations should be made directly to the hotel at the time of check-in. In order to guarantee your room, please supply the following credit card information. Without these details we cannot accept and confirm the reservation.

Credit Card:  Visa  MasterCard  American Express  Diners Club

Account Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Name of Card Holder: \_\_\_\_\_

"I guarantee this room reservation with my credit card. I agree that, in the case of non-arrival, the first night's room rate will be charged to my credit card, unless the reservation has been cancelled by 72 hours prior to 6:00 pm on the date of arrival."

Card Holder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Local Attractions

**Beverly Hills ( 5 miles)** – The infamous home of movie stars and the basis of a very popular TV show. Walk down the streets of Rodeo Drive and Beverly Drive to window shop and see where many movies were filmed. The famous Beverly Wilshire Hotel where Pretty Woman was filmed is found in the heart of Beverly Hills. A great area for sight seeing and possibly spotting a few famous people.

**Hollywood Boulevard** – The famous "Walk of Fame" where you can search for your favorite celebrity's star on the sidewalk. Located in the heart of Hollywood is the Mann Chinese Theater as well as the new Kodak Theater where many movie premieres are shown. There is also a brand new shopping center within the Kodak Theater with multi-levels of shopping and brand name stores.

**Third Street Promenade (5 blocks)** – Located in Santa Monica only a few blocks away from the beach, a series of streets closed off from traffic with shops and restaurants lining the sides. The Promenade spans between Santa Monica Boulevard and Wilshire Boulevard. There are street shows along the Promenade and a shopping mall (Santa Monica Place) at one end. Fun to go for the day if you like the beach environment and great for site-seeing.

**Santa Monica Pier (4 blocks)** – Located in Santa Monica, right on the beach. Great family atmosphere; play carnival games, and ride the rollercoaster, with the luxury of the beach right at your feet. Food is available there as well.

**Downtown Los Angeles** – Home to the Staples Center where the Kings and Lakers play during their athletic seasons. Also found there is the fashion district where you can find discount shopping where the importing and exporting of goods take place in the fashion world. The place to go if you like sports and/or are interested in the center of Los Angeles fashion and jewelry world.

**Farmer's Market** – Located in East Los Angeles in the Fairfax district. Restaurants, Shops, and site-seeing all within a confined area. Excellent place to go for breakfast and to purchase souvenirs. Across the street from CBS entertainment.

**Getty Museum (8 miles)** – Located off of Sepulveda Boulevard in West Los Angeles. It overlooks all of West Los Angeles and on a clear day you can see all the way to downtown. It has a beautiful garden to walk through as well as three stories of beautiful artwork displayed. There are also shops and restaurants.

**LACMA and Miracle Mile** – The Los Angeles County Museum of Art (LACMA) is located on the Miracle Mile along with the Car Museum and other Los Angeles museums and famous buildings. The La Brea Tar Pits are also nearby, which can be walked through. Restaurants are located throughout the area. A good place to go if you are interested in art and the history of Los Angeles.

**Burbank** – Found in the San Fernando Valley, Burbank is the home of the TV and music industry. Many television studios, such as Disney and ABC are located here. Although there are not many places to walk around, it is a good place to drive through to see the different studio lots.

**Universal City** – Home to Universal Studios and Universal City Walk. Great place to spend a day, Begin at the studio taking the tour and enjoying amusement park rides within the studio park. Afterwards, you can enjoy shopping and dinner along the City Walk strip. Great place for families.

**Disneyland** – Located in Anaheim about 45 minutes south of Westwood. Home of Mickey Mouse, this amusement park has rides for older children and adults as well as various themed lands for the littler ones. The famous Disneyland is comparable to Disney World in Florida, and takes at least an entire day to fully enjoy.

**Six Flags Magic Mountain** – Located in Valencia about 45 minutes north of Westwood. More appropriate for adults than for children, this amusement park offers more rides that are faster and scarier. Great fun for the family that likes roller coasters. The children's section of the park based on Looney Tunes and Bugs Bunny theme. There are also games and restaurants within the park. Like Disneyland, an all day event.

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**Instructions for Typing Abstracts**

Since the abstract will be photographed from the author's typescript, it will be published exactly as typed in the outline box. Please read these instructions carefully before typing your abstract.

- Your entire abstract must fit within the outlined box (11.4cm x 16.5cm or 4.5" x 6.5"). We suggest that you practice typing the abstract in a similar rectangle on plain paper before using the special form.
- Do not make carbon copies while typing the abstract on the special form.
- Use black printouts from an ink or laser printer or use an electrical typewriter with a black ribbon. Any insertions must be written in black ink.
- Do not erase. All smudges will show in the published abstract.
- Make abstracts as informative as possible. State specific objectives of study, methods used, a summary of results obtained, and conclusions reached.

**Note Especially:**

- The title is in capital letters.
- Author(s) name(s) in capital letters and underlined.
- Institution, city, and country where the research was performed.
- Use standard abbreviations only.
- Three (3)-space indentation for the first line of abstract.
- Please use 10 pitch Times New Roman character, or similar.
- Abstracts should be one (1) paragraph, typed single spaced.
- No margin at top or left side.
- Fold the form only as indicated. Use cardboard when mailing.
- Provide full address, including email address(es).

**Receipt of abstracts will be acknowledged via email.  
The Program, indicating time and mode of presentation, will be available at  
the ISGP web site (<http://www.isgp.org>) by 31 March, 2003.**

**24th Annual International Gravitational Physiology Meeting  
4 - 9 May, 2003, Santa Monica, California**

**Hotel Reservations**

**MEETING SITE HOTEL ACCOMMODATIONS**

A limited number of rooms have been held at a special price of \$110 until April 4, 2003 at the Four Points by Sheraton Santa Monica, where the meeting will be held.

**Four Points by Sheraton Santa Monica**  
530 W. Pico Blvd. Santa Monica, CA  
Phone: +1-310-399-9344 Fax: +1-310-399-2504  
<http://www.fourpoints.com/santamonica>

The rates given are quoted per room, per night and do not include Room Tax (12.045%). Free self-parking is available.

**ALTERNATE HOTEL ACCOMMODATIONS**

Alternate accommodations are also available at the following hotels:

**Comfort Inn**  
2815 Santa Monica Boulevard  
Santa Monica, CA 90404  
Phone: +1-310-828-5517  
Web site: <http://www.comfortinn.com/>  
online reservation for 1 person = \$65.00  
online reservation for 2 people = \$75.00

**Best Western Gateway**  
1920 Santa Monica Boulevard  
Santa Monica, CA 90404  
Phone: +1-310-829-9100  
Standard rate between \$94.00-99.00

**Days Inn**  
3007 Santa Monica Boulevard  
Santa Monica, CA 90404  
Phone: +1-310-829-6333  
\$99.00 per room/night

*The alternate hotel room rates are quoted per room, per night, and are subject to change without notice.  
Participants are advised to make reservations early, as rates will increase for the tourist season.*

**RESERVATION AND PAYMENT**

*Note: the Hotel Reservation Form on the following page should be used for Four Points by Sheraton reservations only. All other hotel reservations should be made via contacting the hotel of their choice directly.* Reservations must be guaranteed with a credit card at the time of reservation. All major credit cards are accepted (Visa, Mastercard, American Express, Diners Club). To guarantee Sheraton's reduced room rate, please inform the reservation staff you will be attending the 24th International Gravitational Physiology Meeting.

**CANCELLATION**

In the event a hotel reservation must be cancelled, notice must be received by 72 hours prior to 6:00pm on the arrival date. In the case of non-arrival, the first night's deposit will be charged to your credit card.

**24th Annual International Gravitational Physiology Meeting**  
**4 - 9 May, 2003, Santa Monica, CA**  
**Abstract Form**

**Air Mail original to:**

Peter Norsk, M.D., dr.med.sci  
Dept. of Aviation Medicine  
Section 7522, The Heart Center  
Copenhagen University Hospital  
9 Blegdamsvej  
DK-2200 Copenhagen  
Denmark

**Air Mail or fax copy to:**

Dr. Charles A. Fuller  
PO Box 157  
Davis, California 95617-0157  
USA  
Fax: +1 530 752-6681

**Preferred Presentation Method:**

Oral     Poster

**Audio/ Visual Requirements:**

Slide Projector  
 Over-Head Projector  
 LCD Projector

(PLEASE PRINT OR TYPE)

Postal address of the corresponding author:

-----  
fold here

Author(s) Email Address(es), Phone, Fax:

-----  
fold here

-----  
**Note:** Keep type 3 millimeters (1/8 inch) from all sides of abstract box

**TO BE RECEIVED NO LATER THAN 15 FEBRUARY, 2003**