

## **AChemS** Association for Chemoreception Sciences

*fostering chemical senses research and understanding smell and taste in health and disease*

### Executive Committee

#### **Executive Chair**

Judith Van Houten, Ph.D.  
University of Vermont

#### **Past Executive Chair**

John S. Kauer, Ph.D.  
Tufts University School of Medicine

#### **Executive Chair Elect**

Michael Meredith, Ph.D.  
Florida State University

#### **Secretary**

Charles Derby, Ph.D.  
Georgia State University

#### **Treasurer**

Kathryn A. Hamilton, Ph.D.  
Louisiana State University Medical Center

#### **Membership Chair**

Wayne Silver, Ph.D.  
Wake Forest University

#### **Program Chair**

David L. Hill, Ph.D.  
University of Virginia

#### **Councilors**

Robert Bradley, Ph.D.  
University of Michigan

Marilyn L. Getchell, Ph.D.  
University of Kentucky College of Medicine

#### **AChemS Central Office**

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744 Duparc Circle  
Tallahassee, FL 32312-1409  
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### *In This Newsletter You Will*

#### *Find:*

- Information about 1996 AChemS Meeting
- Minutes of Fall 1995 AChemS Executive Committee Meeting
- News from the Executive Chair
- Ballot for Election of Executive Committee Members
- Other News (Positions Available, Meeting Information, and more)

### *Calendar of Deadlines*

#### **February 1996**

29 Deadline for receipt of pre-registration fee

#### **March 1996**

10 Deadline for receipt of ballot for election of officers

#### **April 1996**

17-21 AChemS XVIII Annual Meeting in Sarasota  
20 Deadline for receipt of 1996 dues

The AChemS Newsletter is published twice a year. Those interested in publishing in the Fall 1996 Newsletter should submit material by July 10, 1996 to: Dr. Charles Derby, Secretary of AChemS, Department of Biology, Georgia State University, P.O. Box 4010, Atlanta, GA 30302-4010; Tele (404) 651-3058; FAX (404) 651-2509; EMAIL [biocdd@gsusgi2.gsu.edu](mailto:biocdd@gsusgi2.gsu.edu)

*Minutes of the AChemS Fall Meeting, November 13, 1995 at the Hyatt Regency, San Diego, CA.*

**MEETING BEGAN AT**

**12:20 PM**

**Present:**

Judith Van Houten, Charles Derby, Mike Meredith, John Kauer, Charles Greer, Claire Murphy, David Hill, Barry Ache.

**Secretary's Report** (Charles Derby): The minutes of the AChemS Spring 1995 Business Meeting were formally approved (they were earlier approved through e-mail).

**2. Treasurer's Report** (Judith Van Houten for Kathryn Hamilton): An itemized report is appended showing AChemS' income and expenses from July, 1994 through June, 1995. The report also shows the projected income and expenses from July, 1995 through June, 1996. The report differs from previous reports in that new income and expense categories have been added. These include encumbrances to reserve NIH funds for specific uses (e.g., publication of the final year's symposium) and to distribute the costs of biennial ECRO travel awards across the award and intervening years. There are no encumbrances for the ISOT meeting that AChemS will host in 1997, because AChemS spent \$2,500 for the hotel deposit in August, 1994. Additional funds will be reserved for ISOT expenses during the 1996 - 1997 budget year.

The 1995 - 1996 projection assumes that AChemS' income (including reserves) will increase by approximately 8% relative to the income that was received during the 1994 - 1995 budget year. Current expenditures and cost estimates suggest that AChemS' expenses (including

encumbrances) could increase by 14%, however, possibly resulting in a \$4,086 deficit at the end of the 1995 - 1996 budget year. At closing on 6/30/95, AChemS had \$67,102.95 in cash assets, of which \$61,196.95 were unencumbered in the 1994 - 1995 budget.

The unencumbered assets are therefore sufficient to cover both the projected deficit of the 1995 - 1996 budget year and AChemS operating expenses in the event that the annual meeting must be cancelled.

The AChemS Budget Report is appended. Discussion of the budget centered on several issues, most of them related to the cost of the annual Meeting. (1) Regarding publication charges for papers resulting from the NIH-funded AChemS symposia, it was decided that in order to stay within our budget, the Executive Chair and Program Chair should work with Thomas Finger (editor of Chemical Senses) to be certain that the manuscripts be of appropriate length. (2) Van Houten is producing a Clinical supplemental grant to our NIH grant in order to fund clinical scientists to attend the 1996 Annual Meeting. (3) It was noted that currently ticket sales do not cover the cost of the Industrial Reception and Clinical Luncheon at the Annual Meeting. It was decided that the Society will continue to subsidize these important events. (4) The current Conference Fee for registrants does not meet the actual cost of the annual meeting. When we discussed this at the Spring 1995 Executive Committee meeting, we asked Panacea to provide a cost analysis and report back to us. Panacea's recommendation is to increase the Conference Fee to \$125 for regular members and to \$60 for students. It was decided that we recommend to the AChemS membership at the Spring 1996 Business Meeting that the Membership Fee for the 1997 Annual Meeting be increased at least by this much. (5) It was

reaffirmed that we should continue providing breakfast and soft drinks during the Annual Meeting, in spite of the high cost of this service. However, the Executive Committee requests that all of those using this service be considerate of others and of the Society's budget, and not abuse the service by taking more than their fair share. (6) Charles Greer will explore securing federal funding for maintaining the AChemS Home Page.

**3. Membership Report**

(Judith Van Houten for Wayne Silver): We have arranged with Oxford University Press to include in the regular membership a discounted subscription to the journal Chemical Senses. Of the total fee of \$100, \$55 is for the cost of the journal and \$45 is for AChemS membership. Students are not required to purchase the journal, but they may do so at this discounted price. This arrangement is for 2 years.

**4. 1996 AChemS XVIII**

**Annual Meeting Update:** (David Hill) Most events are scheduled, as described in the Fall 1995 AChemS Newsletter. Hill suggested that the Program Committee work harder to reach out to Sarasota community (i.e. local businesses and media, and the Chamber of Commerce). For example, these groups could provide us with a guide to local restaurants, and provide more publicity of and community involvement in our activities. To work toward this end, the Program Committee will coordinate their activities with those of the Education Committee (Celeste Wirsig) and the Public Relations Committee (Robert O'Connell).

**5. Executive Chair Report:**

(Judith Van Houten) Van Houten reported several initiatives she would like to pursue this year. (1) We should provide mentoring of young chemoreception

scientists; for example, discussing job opportunities in academia and industry, and how to secure grants.

(2) It would be beneficial to improve listing of key words in our publications in chemical senses.

(3) It is important that we maintain our association with Friends of NIDCD. We should have AChemS representatives every year at Communication Awareness Day in Washington DC. (4) WPI will be our first Exhibitor at the 1996 AChemS Annual Meeting.

If successful, this could develop into larger event in future meetings. (5) We have begun a closer association with the Society for Ingestive Behavior, including listing meeting information in our respective newsletters. (6) It is extremely important to maintain and even strengthen our relationship with industrial partners. Reinvigorating our Industrial Liaison Committee so that there is improvement in our communication with industry is one way we will try to accomplish this.



#### 6. Executive Chair Elect's Report (Mike Meredith)

Meredith would like to work toward improving public relations. One initiative is to list on AChemS Home Page a list of experts and their area of expertise, who have offered to answer questions about chemical senses. We could also use direct web surfers to the Chem Senses List Server. Another initiative would be to post multimedia articles on the AChemS the Home Page. We could start with articles by those that have contributed to the CD ROM version of the Encyclopedia for Neuroscience (CD ROM version).



#### 7. 1997 AChemS/ISOT Meeting:

(Charles Greer and Claire Murphy). A joint AChemS/ISOT Program Committee is currently being formed to organize this meeting. Some symposia have already been suggested and partially organized. Slide and poster sessions will be integrated around the symposia. The Givaudan Lecture will also be

part of the program. Efforts are being made to involve industrial interests, EAT physicians, and multinational interests (representing JASTS and ECRO). The International Union of Physiological Sciences will sponsor the meeting as it has in the past and should provide about \$15,000 in support. A conference grant will be sought from NIH, which incorporates funding from NIDCD, NIA, and other relevant institutes. Grants proposals to NSF and The Olfactory Fund are also planned. Industrial Exhibitors and Education Outreach programs are also being planned for the meeting. Fliers advertising the conference are currently under production. The Call for Abstracts mailing is planned for October 1996. Greer and Murphy were invited to report at the Spring 1996 AChemS Business Meeting future progress in their plans.

-RIS



#### CLINICAL RESIDENT TRAVEL FELLOWSHIPS

Funding support from NIH will be available to support travel, accommodations, and registration fees for resident clinicians to attend AChemS XVIII this April 17-21 in Sarasota Florida. Departments will be expected to match the travel fellowship funding. Three awards will be made on a competitive basis.

Please alert eligible clinicians about this opportunity and for more information, have them contact:

Dr. J. Van Houten c/o Panacea Associates,  
744 DuParc Circle Tallahassee, FL 32312-  
1409, 802-656-0452  
(jvanhout@moose.uvm.edu)



**News from the Executive Chair**  
ACChemS XVIII is fast approaching and I am pleased that Dr. James Snow, Director of the National Institute of Deafness and Other Communicative Disorders will be able to attend and address the ACChemS membership at its business meeting. He will give us a brief report on the NIDCD.

**Chemical Senses Subscription:**

Many of you have found and subscribe to our list server, which is a very good development. I note that a frequent topic is the new ACChemS dues structure. Perhaps a few words here will answer some questions in advance. The membership was polled in August 1995 about the inclusion of a subscription fee for *Chemical Senses* in the annual dues. Oxford University Press offered a generously discounted subscription rate of \$55 for our Regular members compared to \$110, which would normally have been the subscription rate with discount for ACChemS members. Student and Emeritus members would be able to subscribe at this new lower rate of \$55, but only if they chose to do so. A large number of ballots were returned and the Executive Chair elect, Mike Meredith, counted the votes. At all levels of ACChemS membership, the vote was approximately 2:1 in favor of the subscription.

Our agreement with Oxford University Press will be in place for two years, but we will consult the membership by August 1997 about the continuation of the subscription and the concerns that are being voiced on the list server can be addressed at that time. For example, refunds are necessary for those who already subscribe to *Chemical Senses* at the higher rate. Please contact Oxford University Press, 2001 Evans Rd., Cary, NC 27513 for a refund once you have paid your ACChemS membership dues, not before. Also, there is concern that some sets of spouses now have two subscriptions. There are multiple subscriptiona and hence multiple copies of *Chemical Senses* in

single labs with advisors and postdocs all receiving copies. I would like to know the magnitude of the concerns and also the degree of satisfaction with the subscription and, therefore, you can vend your comments directly to me at [jvanhout@moose.uvm.edu](mailto:jvanhout@moose.uvm.edu). We will be polling the membership again, so you need not worry that your opinion will not be considered.

For those of who who paid your membership dues after the abstract deadline of Jan. 8, you will indeed receive all of your issues of *Chemical Senses*, but the first issue will be somewhat delayed as your subscription is processed.

**Mentoring Initiative:**

I am in the process of organizing a mentoring group to be a resource for our newer scientists in the chemical senses. Some of you have generously volunteered already, and if there are others of you who would like to be available through phone, FAX or e-mail to confer with scientists who are developing their careers, please contact me.

**Key Words:**

Some of you have already sent in key words that you would like to see more widely used so that we can find each other's papers in Medline and other searches. Please send your favorite key words to me at [jvanhout@moose.uvm.edu](mailto:jvanhout@moose.uvm.edu).

**Clinical Resident Fellowships:**

We are about to receive final word on a request that was made to NIDCD on behalf of ACChemS to supplement our NIH funded grant for meeting symposia with travel fellowships for clinicians to attend our meeting. The motivation is to encourage residents who have an interest in the chemical senses to attend our meeting and become acquainted with our work and our society. Dr. Jack Pearl has been instrumental in this process and, despite the government shut down, the fellowships should be available for this year's meeting.

The request is for funds to underwrite half of a trip to ACChemS annual meeting for three fellows. Their departments would be responsible for the other half of the costs. Since the time of the meeting is approaching and in anticipation of the funding of this supplement, please encourage clinicians to contact me and explore the possibility of applying for one of the fellowships.

**Satellite Meeting:**

This year's annual meeting has an NIH and ACChemS sponsored satellite meeting immediately preceding it. The topic is Olfactory Cell Cycle Analysis: From Go to Apoptosis. Tom Getchell, Anne Calof, and Jack Pearl will soon be sending out notices of this meeting and information on how you can register for the satellite meeting. If the cell cycle is an important topic to you, you should consider getting to Sarasota early for the April 17 satellite meeting.

**ACChemS XVIII and XIX:**

Despite the east coast storm of the century that delayed the arrival of some abstracts, Dave Hill is hard at work with the program committee in arranging an exciting meeting. Drs. Rochelle Small and Jack Pearl are contributing workshops or symposia and Dr. Jane Hu is organizing a workshop on NIH application and funding procedures. Charlie Greer and Claire Murphy are also hard at work on the 1997 meeting that will be a joint one with ISOT in San Diego.

*As a last word - keep those letters and e-mail messages coming and I hope to see you in Sarasota!*

Best wishes,

Judy Van Houten



## AChemS Budget Report

Income	July '94 - June '95	July '95 - June '96
Academic members	\$26,785	\$26,800
Corporate members (Firmeneich, McNeil, Philip Morris, Olfactory Research Fund)	\$6,000	\$6,000
Membership subtotal	\$32,785	\$32,800
NIH grant for symposium and minority fellows	\$25,000	\$28,600
NIH reserve (from previous year)	\$0	\$3,906
NIH grant subtotal	\$25,000	\$32,506
Conference fees	\$47,013	\$49,400
Wine tasting	\$821	\$700
Clinical luncheon	\$780	\$700
Industrial reception	\$740	\$700
Sales (mugs, etc.)	\$983	\$800
Program subtotal	\$50,337	\$52,300
Awards & lectures (Ajinomoto, Frito-Lay, Givaudan, Takasago)	\$10,000	\$10,000
ECRO reserve (from previous year)	\$0	\$2,000
Oxford University Press (for Chemical Senses editors)	\$5,175	\$5,200
Other income (interest, donations)	\$2,144	\$1,000
Awards, ECRO, Oxford, Other subtotal	\$17,319	\$18,200
<b>Total income (including NIH and ECRO reserves)</b>	<b>\$125,441</b>	<b>\$135,806</b>

Expenses	July '94 - June '95	July '95 - June '96
Panacea Associates' fees (less \$1,200 allocated to NIH program)	\$23,253	\$23,486
Communication expenses (newsletters, directory, Panacea's phone, etc.)	\$6,934	\$8,900
Membership subtotal	\$30,187	\$32,386
NIH symposium expenses (Hyatt, Outreach, Panacea's fee)	\$2,029	\$2,200
NIH symposium speakers	\$8,233	\$8,800
Minority fellows program	\$6,832	\$10,000
Page charges for last year's symposium	\$4,000	\$4,000
Encumbrance for '98-'99 page charges (to carry over)	\$0	\$1,000
Encumbrance for next year's symposium and fellows (to carry over)	\$3,906	\$6,506
NIH grant subtotal	\$25,000	\$32,506
Program expenses (Hyatt, programs, abstracts, helpers, shuttle, Program Chair, etc.)	\$36,055	\$39,300
Other speakers	\$0	\$1,800
Student travel awards	\$8,426	\$8,800
Wine tasting	\$968	\$700
Clinical luncheon	\$812	\$800
Industrial reception	\$996	\$1,000
Sale items (mugs, etc.)	\$339	\$400
Program subtotal	\$47,596	\$52,800
Awards and lectures (Ajinomoto, Frito Lay, Givaudan, Tucker)	\$9,542	\$10,300
ISOT hotel deposit	\$2,500	\$0
ECRO travel fellowships	\$0	\$4,000
Encumbrance for next year's ECRO fellowships (to carry over)	\$2,000	\$0
Editors of Chemical Senses	\$4,050	\$5,200
Other expenses (Communication Awareness Day, fees, other operating costs)	\$2,176	\$2,700
Awards, ISOT, ECRO, Editors, Other subtotal	\$20,268	\$22,200
<b>Total expenses (including encumbrances)</b>	<b>\$123,051</b>	<b>\$139,892</b>

### Cash assets at closing 6/30/95

Certificate of deposit	\$10,000.00
Savings account (including \$1,004.15 interest from savings and CD)	\$32,254.89
Master checking account	\$23,025.67
Reimbursable account (managed by Panacea Associates)	<u>\$1,822.39</u>
<b>Total assets at closing 6/30/95</b>	<b>\$67,102.95</b>
less '94-'95 NIH and ECRO reserves	-\$5,906.00
<b>Unencumbered assets at closing 6/30/95</b>	<b>\$61,196.95</b>

# AChemS XVIII

April 17 - 21, 1996

Hyatt Sarasota, Sarasota FL

## PRELIMINARY PROGRAM

Program Committee Chair: Dr. David L. Hill  
e-mail: dh2t@virginia.edu  
telephone: (804) 982-4728

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**Wednesday; April 17, 1996**

**Premeeting Event Co-Sponsored by NIDCD and AChemS**

**"Olfactory Cell Cycle Analysis: From GO to Apoptosis"**  
*Organized by Drs. Jack Pearl, Anne Calof and Thomas Getchell*

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**Wednesday; April 17, 1996**

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|------------------------|---|
| 5:00 p.m. - 6:30 p.m.  | Registration  |
| 6:30 p.m. - 8:00 p.m.  | Opening Buffet  |
| 8:00 p.m. - 8:30 p.m.  | AChemS XVIII Opening  |
| 8:30 p.m. - 9:30 p.m.  | Givaudan-Roure Lecture<br><b>"Mechanisms Underlying Experience-Dependent<br/>Changes in the Neural Representation of Auditory<br/>Space in the Barn Owl"</b><br>by<br>Dr. Eric Knudsen<br>Department of Neurobiology<br>Stanford University |
| 9:30 p.m. - 11:00 p.m. | AChemS XVIII Social   |
| 9:30 p.m. - 10:30 p.m. | Graduate Student Meeting  |

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## Thursday; April 18, 1996

- 8:00 a.m. - 11:30 a.m. Slide Sessions
- 8:30 a.m. - 12:30 p.m. Poster Sessions
- 11:30 a.m. - 1:00 p.m. Transplantation Workshop  
*Organized by Drs. Jack Pearl and Ed Morrison*
- 1:00 p.m. - 3:00 p.m. Clinical Luncheon  
*Organized by Dr. April Mott*
- 1:00 p.m. - 5:00 p.m. AChemS Executive Committee Meeting
- 5:00 p.m. - 7:00 p.m. The Society for the Study of Ingestive Behaviors (SSIBS)  
Social & Talks  
*Organized by Dr. Sandra Frankmann*  
Presentations by Drs. Thomas Houpt, Terry Powley, & Tony Sclafani
- 7:00 p.m. - 11:00 p.m. Poster Sessions
- 7:30 p.m. - 9:30 p.m. Awards Symposium -- Presentations by Award Winners
- 9:45 p.m. - 11:00 p.m. Slide Session

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## Friday; April 19, 1996

- 8:00 a.m. - noon Slide Sessions
- 8:30 a.m. - 12:30 a.m. Poster Sessions
- 1:00 p.m. - 2:30 p.m. NIH Grants Workshop  
*Organized by Dr. Jane Hu*
- 5:00 p.m. - 7:00 p.m. Industry Panel and Buffet  
*Organized by Dr. Anna Marin*
- 7:00 p.m. - 11:00 p.m. Poster Sessions
- 7:30 p.m. - 9:30 p.m. Symposium/Workshop -- **Vomeronasal Organ Function**

*Organized by Dr. Michael Meredith*

Speakers: Dr. Michael Meredith  
Dr. Barry Keverne  
Dr. Mimi Halpern  
Dr. Richard Axel  
Dr. Robert Moss

9:45 p.m. - 11:00 p.m. Slide Session Targeted at Human Vomeronasal Organ Function

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### **Saturday; April 20, 1996**

8:00 a.m. - 11:45 a.m. Slide Sessions

8:30 a.m. - 12:30 p.m. Poster Sessions

noon - 1:30 p.m. AChemS Business Meeting

2:30 p.m. - 4:30 p.m. 1st Annual Taste vs. Smell Softball Game

5:00 p.m. - 7:00 p.m. Beer Appreciation Symposium

7:00 p.m. - 11:00 p.m. Poster Sessions

7:30 p.m. - 9:30 p.m. Symposium/Workshop: **The Amiloride-Sensitive Sodium Channel -- Past, Present & Future**

*Organized by Dr. John DeSimone*

Speakers: Dr. John DeSimone  
Dr. Dale Benos  
Dr. Cecilia Canessa  
Dr. Timothy Gilbertson

9:45 p.m. - 11:00 p.m. Slide Session Targeted at Psychophysical Studies using Amiloride

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### **Sunday; April 21, 1996**

8:00 a.m. - 11:00 a.m. Slide Sessions

8:00 a.m. - 11:00 a.m. Poster Sessions

**Olfactory Cell Cycle  
Analysis: From Go  
to Apoptosis**

Workshop to be held in conjunction with 1996 Association for Chemoreception Sciences Annual Meeting.

**Organizers:**

Tom Getchell  
Anne Calof  
Jack Pearl

Wednesday, April 17, 1996,  
8:30 a.m. - 5:00 p.m.,  
Sarasota Hyatt Hotel, Sarasota, Fl.

8:30 Welcome and Overview -Jack Pearl  
NIDCD-NIH

8:45 Scientific Introduction  
Chair: Tom Getchell Univ. of Kentucky

*Overview and identification of key research questions in cell cycle analysis; panel and participant input*

10:00 Coffee Break

10:30 **TOPIC I:**  
Genomic and Molecular Regulation of the Cell cycle. Chair: Michael Shipley Univ. of Maryland

**SPEAKER:**

Andrew Murray, UCSF

**TITLE:**

"Checkpoints: mechanisms to detect defects in the cell division cycle"

**PANEL MEMBERS:**

Frank Margolis,  
Univ. Of Maryland;  
Gabrielle Ronnett,  
Johns Hopkins;  
Michael Shipley  
Univ. Of Maryland;  
Carol J. Thiele,  
NCI-NIH.

Invitation extended:

Randall Reed,  
Johns Hopkins Univ.

Participant Discussion

12:00 LUNCH

**TOPIC II:**

Proliferation and Differentiation of Progenitor Cells

Chair: Anne Calof

Univ. Of California, Irvine

**SPEAKER:**

Ron McKay

NINDS-NIH

**TITLE:**

"Building Brains from Stem Cells"

**PANEL MEMBERS:**

Harriet Baker,

Cornell Univ.;

Gail Burd,

Univ. Arizona;

Al Farbman,

Northwestern Univ;

John Kauer,

Tufts Univ.;

Nagesh Mahathappa

Cambridge Univ.;

Sarah Pixley

Univ. of Cincinnati.

Invitation Extended:

Richard Axel,

Columbia Univ.

Participant Discussion

2:45 **TOPIC III**

Molecular Analysis of Cell Death Genes

Chair:

Dona Chikaraishi,

Duke Univ.

**SPEAKER:**

Bob Freeman,

Univ. of Rochester

**TITLE:**

"Cell death genes: potential mediators of apoptosis in trophic-factor-deprived neurons"

**PANEL MEMBERS:**

Virginia Carr,

Northwestern Univ.;

Michael Leon,

Univ. of California, Irvine;

Tom Mahalik,

Univ. of Colorado

Invitation Extended:

James Morgan,

St. Jude Research Hosp.

Participant Discussion

4:15 Coffee Break

4:30 **SUMMING UP**

Articulation of key research questions in olfactory cell cycle analysis and experimental strategies to address these questions

Chair:

Tom Getchell,

Univ. of Kentucky

## Secretary

### **Sarah Pixley, PhD**

Education & Training: University of California Los Angeles: M.S. in Physiology, Ph.D. in Anatomy, 1983; Postdoc: University of California Irvine and Cedars-Sinai Medical Center, Los Angeles. Research Interests: Regulation of neurogenesis and neuronal differentiation in cultures of olfactory neurons. Identification of the trophic support from the olfactory bulb to the olfactory sensory neurons. Investigations of calcium and voltage sensitive dyes in olfactory neuron function.

### **Richard A. Gleeson, PhD**

Education & Training: B.S., Franklin & Marshall; M.S., Pennsylvania State University, 1972; Ph.D., College of William and Mary, 1978; NIH Postdoc Fellow, Monell Chemical Senses Center, 1978-1980. Current Position: Research Scientist, Whitney Laboratory, Univ. of Florida. Research Interests: Comparative chemosensory biology; identification of morphological and physiological adaptations to challenging environmental conditions in aquatic chemosensory (particularly olfactory) systems; olfactory dendrite regeneration and turnover; aquatic pheromone systems.

## Councilor

### **Thomas Christensen, PhD**

Current Position: Associate Research Scientist, Arizona Research Labs, Division of Neurobiology. Research Interests: understanding the functional organization, physiology and biochemistry of the olfactory system in insects. Of particular interest is learning the rules by which olfactory circuits in insects encode information about behaviorally-essential odorants such as sex pheromones and host-plant volatiles; second focus is to learn more about the critical role of intermittency in olfactory perception and discrimination, and to learn how the brain encodes this important feature of the olfactory stimulus.

### **Barry J. Davis, PhD**

Current Position: Associate Professor, Dept. of Cell Biology, University of Alabama Birmingham. Research Interests: correlated anatomical and physiological studies of the gustatory zone of the NTS in the hamster. Special emphasis on identification of classes of neurons receiving direct inputs from peripheral gustatory fibers and their response properties to taste stimuli, and the differences and similarities between such neurons and neurons that also contribute to the ascending gustatory pathway. Other studies examine the segregation of incoming gustatory information into ascending vs. descending pathways, i.e., pathways concerned with either the discrimination of taste stimuli or the visceromotor aspects of ingestional behavior (e.g., swallowing, salivation, licking).

### **Theresa A. Harrison, PhD**

Education & Training: Ph.D. Harvard University, 1979; Post-doc., University of Washington, 1980-83; Research Associate, Emory University, 1983-86; Research Assistant Professor, University of Michigan, 1986-88. Current Position: Assistant Professor, Medical College of Georgia. Special Reviewer, NIH NIDCD Small Grants Program, 1995; President, MCG Chapter, Society for Neuroscience, 1993. Research Interests: Electrophysiology, neuroanatomy; functional properties of CNS circuits in mammalian taste and olfaction; Fos mapping and immunocytochemical localization of functional populations in gustatory NST.

## Program Chair Elect

### **Gail D. Burd, Ph.D.**

Education & Training: Ph.D. in Neurobiology, University of North Carolina, Chapel Hill, 1979. Postdocs: Worcester Foundation for Expt'l Biology, MGH and Harvard Medical School. Asst. Prof., Rockefeller University. Current Position: Assoc. Prof., University of Arizona, Dept. Molecular and Cellular Biology, Cell Biology and Anatomy. AChemS Program Committee, 1980, 1990, 1994; AChemS Awards Committee, 1990-1992; AChemS Councilor, 1992-1994. Co-Organizer, Symposium on Development, ISOT, Oslo, Norway, 1989; 1993 Nat. Strategic Res. Planning Board for NIH-NIDCD; 1993-present NIH-NIDCD (study section); 1994 Vice Chair, Gordon Conference on Chemical Senses; Research Interests: Development of the vertebrate olfactory system; role of sensory afferents and hormones in development; genes involved in olfactory system development. Other interests: Science outreach in the K-12 classroom and in teacher training.

### **Peter Brunjes, Ph.D.**

Education & Training: PhD, Indiana University; Postdoc: University of Illinois. Present position: Professor of Psychology and Associate Dir. of the Neuroscience Graduate Program at the University of Virginia. 1990 Nakanishi (Takasago) Award. AChemS Nominating and Program Committees. Research Interests: understanding the development of the olfactory system. Recent work falls into two areas: the role of afferent input in normal development, and comparative studies of the maturation of olfactory pathways.

## Dear AChemS Members:

Plans are well underway for AChemS XVIII. As mentioned in my letter included with the Fall Newsletter, it is the intent of this year's Program Committee to restore more 'free time' to the meeting in order to foster informal discussions and fun. Therefore, we are attempting to leave as many afternoons during the meeting open as possible from scientific sessions so that you can meet with friends and colleagues around the pool, at the beach, or wherever you find conducive to creative thought. Allow me to highlight some of the special events.

1. The National Institute of Deafness and Other Communicative Disorders and AChemS are co-sponsoring a satellite meeting entitled 'Olfactory Cell Cycle Analysis: From GO to Apoptosis'. This exciting event is cooperatively organized by Drs. Jack Pearl, Anne Calof, and Thomas Getchell. Please see the registration materials for this pre-meeting event later in this newsletter.

2. This year's Givaudan-Roure Lecture will be given by Dr. Eric Knudsen from the Department of Neurobiology of Stanford. His title is 'Mechanisms Underlying Experience-Dependent Changes in the Neural Representation of Auditory Space in the Barn Owl'. Please plan on attending what I can assure you will be an outstanding beginning to the scientific portion of the meeting.

3. Drs. Jack Pearl and Ed Morrison are co-organizing a Workshop on Neural Transplantation. This promises to be an important event in defining further transplantation work in the chemical senses.

4. As in past years, Dr. Jane Hu has organized a NIH Grants Workshop to provide information to the new and seasoned researcher on the world of grants and grantsmanship. There is no

preregistration for this event.

5. We are privileged to have two NIH-Sponsored Symposia/Workshops this year. The 'Vomeronasal Organ Function' Workshop is organized by Dr. Michael Meredith and focuses on the biology of the vomeronasal organ. The Symposium/Workshop organized by Dr. John DeSimone is entitled 'The Amiloride-Sensitive Sodium Channel – Past, Present & Future', and it focuses on the biology of the amiloride-sensitive sodium channel. Both events include speakers new and old to AChemS.

6. Barbara Talamo and her Program Committee began an Awards Symposium during last year's meeting where winners of the awards granted to AChemS members presented some of their work. This was a big success last year and will be continued at this meeting.

7. Please take note of the Special Event Functions that will be held at the meeting. Specifically, the *Clinical Luncheon* organized by Dr. April Mott, the *Society for the Study of Ingestive Behaviors (SSIBS) Social and Talks* organized by Dr. Sandra Frankmann, and the *Industry Panel and Buffet* organized by Dr. Anna Marin. Details about the cost and registration for these functions are found in this Newsletter.

8. Plans are currently underway for the Educational Outreach Program. This function is co-organized by Drs. Suzanne Sollars and Jeanine Stewart. New items are planned for this event to promote a further education of students about the Chemical Senses.

9) Saturday afternoon at the meeting should be an especially fun and relaxing time. We invite everyone to participate in the First Annual Taste vs. Smell Softball Game. This will be an outing to a local softball field for an afternoon

of giggles. Please bring your favorite baseball bat and gloves!! Transportation will be provided from the Hyatt.

Instead of the Wine Tasting Session that has been on the program in past years, The Sarasota Brewery has kindly agreed to provide the knowledge and brew necessary to have a Beer Appreciation Symposium. Our own Charlie Greer and Jack Kinnamon (to no one's surprise) have been instrumental in helping begin this new event.

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## SARASOTA BREWING Co. BAR & GRILL

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On behalf of the Program Committee, we look forward to seeing you in Sarasota and hope that you will enjoy it.

David Hill, for the Program Committee: Drs. Charles Greer, Peter Brunjes, Stuart Firestein, Timothy Gilbertson, John Glendinning, Barry Green, Jack Kinnamon, and Suzanne Sollars.

The following is the Preliminary Program for this year's meeting. It is also currently on the AChemS World Wide Web Homepage (<http://www.neuro.fsu.edu/achems>). Please check the homepage about mid- to late March for the AChemS XVIII Program.

## Information about 1996 GORDON CONFERENCE

### Second Announcement and Program 1996 Gordon Conference on the Chemical Senses

The next Gordon Conference on the Chemical Senses will be held **August 18-23, 1996** at Salve-Regina University, located in the popular New England seaside resort town of Newport, Rhode Island. The theme of the conference will be "**Understanding stimulus quality in the chemical senses: molecules to perception**". The goal of the conference will be to revisit the concept of stimulus quality in the chemical senses in light of the new insights gained from molecular biology and other state-of-the-art approaches to the field. An integrated series of eight focused lecture/discussion sessions highlighted by a plenary lecture will collectively address the concept of stimulus quality through various levels of organizational complexity.

**Note:** Formal sessions for the summer New England Gordon Conferences will now begin Sunday evening and run through Thursday evening. This is a slight change from prior Conferences.

#### **Late Afternoon/Evening, Sunday August 18:**

Welcome Reception

Opening Dinner

Plenary Session - Understanding coding of odor and tastes through an understanding of drug receptors

Chair: **G Shepherd** (Yale U)

Speaker: **K Strader** (Schering-Plough Research Inst) -

"Structural basis for G-protein coupled receptor function"

#### **Morning, Monday August 19:**

Breakfast

Platform Session 1 - How shall we measure stimulus quality in the chemical senses?

Chair: **C Derby** (Georgia State U)

Speakers: **W Cain** (UCSD) -

"Development of a metric for perceived odor quality"

**P Breslin** (Monell Ctr) -

"Discrimination studies as a tool for identifying qualitative differences in taste stimuli"

**J Glendinning** (U Arizona) -

"Comparative and ecological perspectives on taste quality"

Discussant: **A Gilbert** (Synesthetics)

Lunch

#### **Late Afternoon/Evening,**

#### **Monday August 19:**

Poster Session 1

Dinner

Platform Session 2 - Role of peripheral integration in coding chemosensory stimuli

Chair: **J VanHouten** (U Vermont)

Speakers: **B Lindemann** (U Saarlandes, FRG) - "Sweet and salty: transduction in taste" (tentative)

**H Breer** (U. Hohenheim-Stuttgart, FRG) - "Odor specificity of signal recognition and transduction in olfactory neurons" (tentative)

Discussants: **L Kalinoski** (Monell Ctr), **S Roper** (U Miami)

#### **Morning, Tuesday August 20:**

Breakfast

Platform Session 3 - Genomic organization and receptor expression in chemoreceptor cells

Chair: **R Reed** (Johns Hopkins U)

Speakers: **F Margolis** (U Maryland) - "Control of expression of olfactory marker protein in olfactory receptor neurons" (tentative)

**C Bargmann** (U Calif, San Francisco) - "Olfactory receptors and specificity in *C. elegans*"

**D Lancet** (Weizmann Inst, Israel) - "Human olfactory receptor clusters: genome analysis of

diversity and evolution"

Discussant: **N Chaudhari** (U Miami)

#### **Late Afternoon/Evening,**

#### **Tuesday August 20:**

Poster Session 2

Dinner

Platform Session 4 - Oscillatory potentials: their role in odor quality discrimination

Chair: **A Gelperin** (AT&T)

Speakers: **G Laurant** (Caltech) -

"Temporal and dynamic representations of odors in an insect's olfactory brain"

**K Delaney** (Simon Fraser U) -

"Odor-elicited oscillations in frog olfactory bulb and cortex: from single cells to widespread coherence"

Discussants: **J Kauer** (Tufts U), **J Caprio** (LSU)

#### **Morning, Wednesday August 21:**

Breakfast

Platform Session 5 - Imaging as a key to understanding cortical representation of stimulus quality

Chair: **G Kobal** (U Erlangen-Nurnberg, FRG)

Speakers: **J Gore** (Yale U) -

"Applications of magnetic resonance imaging to the study of the human brain: state of the art"

**B Kettenmann** (U Erlangen-Nurnberg, FRG) - "Localization of cortical olfactory areas with

magnetic source imaging and functional magnetic resonance imaging"

**J Hirsch** (Sloan-Kettering Ctr) - "Localization of cortical taste areas with functional magnetic resonance imaging"  
Discussant: **R Doty** (U Pennsylvania)

Lunch

**Late Afternoon/Evening,  
Wednesday August 21:**

Organized social activity, possibly bicycle tour of Newport "cottages" or boat outing

Dinner

**Platform Session 6 - Neural representation of the affective (hedonic) dimension of chemical stimuli**

Chair: **B Slotnick** (American U)  
Speakers: **T Yamamoto** (Osaka U, Japan) - "Neural processing of hedonics and quality of taste stimuli in the rat brain"  
**P Shizgal** (Concordia U) - "What is it, and what is it worth?: processing of quality and value in the chemical senses"  
Discussants: **R Norgren** (Penn State U),  
**I Bernstein** (U Washington)

**Morning, Thursday August 22:  
Breakfast**

**Platform Session 7 - Relating molecular, physiological and psychophysical studies to quality recognition in olfaction**

Chair: **T Getchell** (U Kentucky)  
Speakers: **L Buck** (Harvard U) - "Patterns of odorant receptor input in the olfactory bulb"  
**K Mori** (Riken Inst, Japan) - "Axonal connection to and response specificity in olfactory glomeruli"  
**D Laing** (U Western Sydney, Australia) - "The capacity of humans to process information from complex odor mixtures"  
Discussant: **M Shipley** (U Maryland)

Lunch

**Late Afternoon/Evening,**

**Thursday August 22:  
Poster Session 3**

Closing Banquet

**Platform Session 8 - Relating molecular, physiological and psychophysical studies to quality recognition in taste**

Chair: **M. Frank** (U Connecticut)

Speakers: **R. Margolskee** (Mount Sinai) - "Gustducin's role in taste transduction: molecular, behavioral and electrophysiological analysis of gustducin knock-out mice"

**J. DeSimone** (Virginia Commonwealth U) - "Two salt taste transducers: what types of information do they convey?"

**D. Smith** (U Maryland) - "The contribution of behavioral data to the interpretation of physiological and molecular studies of taste"

Discussant: **S. Kinnamon** (Colorado State U)

**Morning, Friday August 23:  
Breakfast  
Departure**

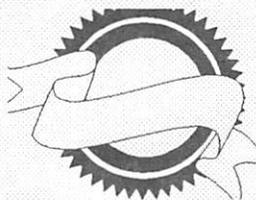
Plan now to attend. Look for application materials and guidelines in the February issue of *Science* magazine featuring the 1996 Summer Gordon Conferences. We anticipate support for minority scientists under-represented in the chemical senses and for students to attend the conference. Be sure to note on your application or in a separate communication to either of the Chairpersons if you would like to be considered for either type of support. For further information, contact:

**Dr. Barry W. Ache**, Chairperson  
Whitney Laboratory  
University of Florida  
9505 Ocean Shore Blvd.  
St. Augustine, FL 32086  
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# ECRO XII



Zürich, August 25-31, 1996

ECRO XII will take place in Zürich, Switzerland, at the Swiss Federal Institute of Technology (ETH), August 25-31, 1996.

A detailed scientific program with plenary lectures by invited speakers, slide and poster presentations, and workshops on specific topics, is in preparation. The congress is organized in cooperation with the Department of Food Service of the Swiss Federal Institute of Technology (ETH).

#### Scientific Committee

Chairman: Dr. C. Margot, Firmenich, Genève; Dr. G. Acuña, Givaudan-Roure, Dübendorf; Prof. Dr. R. Amadó, ETH Zürich; Prof. Dr. F. Escher, ETH Zürich; Dr. D. Glaser, Universität Zürich; Dr. K. Lerch, Givaudan-Roure, Dübendorf; Mrs. C. Stambanoni Koferli, Givaudan-Roure, Dübendorf; Prof. Dr. J. Solms, Zürich.

#### Organizing Committee

Chairman: Dr. J. P. Calame, Givaudan-Roure, Dübendorf; Mrs. M. Casutt, ETH Zürich; Mrs. R. Genner-Ritzmann, ETH Zürich; Dr. D. Glaser, Universität Zürich; Mrs. B. Guggenbühl Gasser, ISW Wädenswil.

#### Congress Secretariat

Mrs. S. Barcatta, Givaudan-Roure, Dübendorf

Telephone:

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#### Accommodations

Accommodations will be available in hotels of all categories within walking distance of the ETH where the Congress will take place. A hotel registration form will be provided

together with the congress registration form to be distributed in February 1996

Zürich is a lakeside town, lying at the end of the Lake of Zürich. On the horizon you will see the majestic panorama of a chain of Alpine mountains. In spite of being the largest city in Switzerland, Zürich is surrounded by green hills and forests. Wherever you are in Zürich, within a short time you are in the middle of the countryside.

Next to time-honored churches and guild houses you will also see bold new architecture. All over the city, you will detect the traces of well-known artists such as Marc Chagall and Max Bill. If you are interested in museums, you will find a large choice of different ones.

From Zürich you can easily reach most of Switzerland's spectacular scenic places within one day. The congress office can provide some suggestions.

#### Scientific Program - Call for Papers

The scientific program will consist of some plenary lectures and many oral presentations and posters. The contributions will be classified into the following Main Topics.

#### Main Topics:

Molecular Biology  
Molecular Genetics  
Physics and Chemistry  
Physiology  
Behavior and Sensory Science  
Air Pollution

For each of these main topics we will have subdivisions for humans, vertebrates, invertebrates, industry and agriculture. Authors wishing to present a paper or a poster are invited to submit a short abstract describing their intended presentation.

#### Plenary Lectures

The following speakers have already accepted to give a main lecture:

Dr. Gary K. Beauchamp, Monell Chemical Senses Center, Philadelphia, USA: Public conference on the theme: Chemical senses in everyday life and the relevance of scientific research.

Dr. Heinz Breer, University Stuttgart-Hohenheim, Germany: Molecular biology of olfactory transduction.

Dr. Joseph G. Brand, Monell Chemical Senses Center, Philadelphia, USA: Bitter taste transduction.

Dr. Gerd Kobal, University Erlangen, Germany: Olfactory related events in the brain.

Dr. C. Nofre & J.M. Tinti, Lyon, France: Sweet taste perception.

Dr. R. R. Reed, John Hopkins University, Baltimore, USA: Genetics of olfaction.

Dr. H. MacFie, AFRC Institute of Food Research, Shinfield, UK: Sensory analysis and chemometrics.

#### Final Program and Further Information

Further information and details of the final program, including the registration form, will be mailed in February 1996.

#### Key Dates:

February 1996

Second Circular  
Registration Form

April 1996

Deadline for Submission of Abstracts

June 1996

Final Program

August 25-31, 1996

Congress

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# POSITIONS AVAILABLE

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## PSYCHOBIOLOGIST, VISITING ASSISTANT PROFESSOR

The Department of Psychology at the University of Florida has a position for a Visiting Assistant Professor beginning Summer 1996 and renewable for up to 3 years. The successful candidate will be expected to teach 2 courses per semester (Fall and Spring) in the general areas of physiological psychology, biological basis of motivation, and chemical senses. Duties will also include actively participating in a research program focused on taste and ingestive behavior under the direction of one of our faculty members. Send a curriculum vitae, up to five reprints, and three letters of recommendation to: Dr. Alan Spector, Chair of the Psychobiology Search Committee, Department of Psychology, University of Florida, Gainesville, FL 32611. The deadline for applications is March 1, 1996. The University of Florida is an Equal Opportunity/Affirmative Action Employer. Female and minority applicants are strongly encouraged to apply. The selection process will be conducted under the provisions of Florida's "Government in the Sunshine" and Public Records Laws. Anyone requiring special accommodations to complete this application should contact the Search Committee Chair.

**Alan C. Spector, Ph.D., Department of Psychology, University of Florida,  
Gainesville, FL 32611-2250**

Phone: 904/392-5451/904-392-5451, FAX: 904-392-7985,

E-mail: [spector@psych.ufl.edu](mailto:spector@psych.ufl.edu)

## TUFTS MEDICAL SCHOOL - NEUROSCIENCE

Two Postdoctoral Positions: Available immediately. One to work on information processing in the olfactory system using a combination of molecular biological and physiological methods. Molecular biological experience required; physiological/computational experience desired. A second position is to work on the development of artificial olfactory systems by incorporation of physiological principles into engineered devices. Biological experience with an interest in engineering desired. Please send CV and letters from three references to:

**John S. Kauer, Ph.D., Dept. of Neuroscience, Tufts Medical School, 136 Harrison  
Av., Boston, MA, 02111. fax: 617-636-0476; email: [jkauer@pearl.tufts.edu](mailto:jkauer@pearl.tufts.edu)**

## WELCOME TO THE CHEMOSENSORY COLLEGE BOWL

As people entered the Chemosensory Social at the Annual meeting of the Society for Neuroscience, they wondered: "Would this new game challenge our knowledge of the chemosensory world?" "Was this to be a new taste and smell treat?" Well, last spring, when I was asked to plan this event, I was told: "This will be good for you." (Yeah, yeah!) Anyway, not wanting to look like a total idiot, I enlisted as many people as I could corral to listen. Luckily, I found many helpers. Nancy Koster, who is doing a postdoc in my lab, suggested the best format idea. It was to be like the old TV game show, College Bowl (those older than generation X will remember it--Nancy watched re-runs). We decided to pit a team of olfactory scientists against a team of taste scientists:

Weighing in to defend the intellectual capabilities of taste scientists:

Sue Kinnamon, Dave Hill, and Tom Finger

Weighing in to defend the intellectual capabilities of olfactory scientists:

Peter Brunjes, Barry Ache and Judy Van Houten

Our esteemed moderator was Vince Dionne who, with a truly marvelous collection of bells and buzzers, kept the panelists (but not the audience) in check. Yours truly, S. Pixley, was the scorekeeper. Then, the festivities began. It was hotly contested from the very beginning. Rich Costanzo contributed some illuminating slides of illustrious chemosensory scientists. Unfortunately, a rowdy debate began between the audience and panelists about where Bob O'Connell's tattoo was and how various people knew about this. This detracted from the meaningful intellectual discussion of how a chemosensory scientist could have a varied and interesting past. Soon the taste and olfactory panels were tied for points. There was intensive argument over whether Toledo or Chicago was the "City of the Big Smell". Toledo won, although the books say it is Chicago. Then, after the question: "What is the function of Olfactory Marker Protein?", a new category appeared on the scoreboard. Harriet Baker, in the audience, won the right to her own column on the scoreboard, with the answer: "the function of OMP is to pay Frank Margolis's mortgage!" The audience agreed that this was the answer given most often by that expert on OMP biology, F. Margolis. In the end, after much heated debate, the College Bowl ended in a tie: 12 to 12, with 3 points in Harriet's column. The panelists delighted in their magnificent, party favor, prizes. I wish to thank all who contributed, which include all mentioned above, as well as those who provided questions: the panelists, the moderator, Rich Costanzo, Wayne Silver, Steve Kleene, Nancy Koster, Bert Menco, Al Farbman and Dorland's Medical Dictionary (via S. Pixley). Jeanine Stewart and Charles Greer won the audience participation prize: "There are 11 husband-wife, or significant-other, pairs of chemoscientists. Name all 11 and win a special prize." It turns out there are at least 21 pairs of scientists! (for a list, email sarah.pixley@uc.edu) We challenge next year's Social organizers to match our efforts!

Some sample questions from the College Bowl:

Q: What is pathological gustatory sweating?

A: A condition in which parasympathetic nerves abnormally innervate sweat glands instead of salivary glands. Taste stimuli elicit sweating rather than salivation (Frey's syndrome).

Q: If an EOG is an electroolfactogram and an EAG is an electroantennogram, what is an EGG?

A: Something produced by chickens and eaten for breakfast.

Q: Why do sperm have odorant receptor proteins and why does it take 1 million sperm to fertilize 1 egg?

A: Because sperm, like men, do not stop to ask directions.

Q: What am I? In mammals, I am a long, non-motile cylindrical process projecting from the nasal epithelium into the mucus. I am the first thing encountered by an arriving odorant molecule.

A: I am a nose hair.

Q: What is franklinic taste?

A: A sour taste produced by stimulating the tongue with static electricity.

Q: How many channels are there on insect olfactory receptors?

A: It depends on the size of the antenna and whether or not they get cable.

## Budget Welcomes AChemS Attendees

Budget Rent a Car along with the Hyatt of Sarasota, work very closely together to give our guests professional and complete service upon their arrival in Sarasota, Florida

To guarantee your listed Special Group Rates please call our toll free number 1-800-772-3773 and be certain to say that you are with AChemS and your rate code is **BCD#UOO4383**. Looking forward to seeing you in Sarasota. Free unlimited mileage. As a Bonus you can ask for an additional \$10 off you listed group rate for Budget--(Minimum 3 day rental required.)

### AIR TRAVEL

Commodore Travel is the designated travel agency for the AChemS XVIII conference. Call Commodore at 1 800 476 2153. They will offer a rate 5% below the best published rate that is available from Delta, American or US Air. If we have 40 tickets booked on one airlines, AChemS will receive a ticket to support one of our presenters. They will also make a donation toward student travel for each ticket booked.

**AChemS** Association for Chemoreception Sciences  
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Richard M. Costanzo  
Dept of Physiology, Medical College of Virginia  
1101 East Marshall Street  
Richmond VA 23298-0551 USA

- ① letterhead to Bob O'Connell
- ② Check with JVOX re: WPI exhibit, restaurant guide & discounts, welcome AChemS signs
- ③ MIKE - emulation of AChemS home page, industry San Diego area. - RIS, Saunders put - Carlstead.