Minutes, Teleconference of the APS DFD Executive Committee, May 18, 2009, 11:30-2:00 p.m. EDT
(prepared by Ellen Longmire)

Participants: Smits, Marcus, Lasheras, Karagozian, Brasseur, Hertzberg, Maxey, Tuckerman, Hosoi, Collins, Llewellyn Smith, Girimaji, Mahesh, Domaradzki, Prosperetti, Holland, Longmire

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The meeting was opened by Phil Marcus, DFD Chair.

1. Minutes from the November, 2008 ExCom meeting were approved and will be posted on the DFD website.

2. Future DFD Annual Meetings

2009, Minneapolis, Krishnan Mahesh (see Appendix)

The meeting will be held at the Minneapolis Convention Center, and the reception will be held at the Minneapolis Hilton immediately adjacent. The meeting website is live, and a number of sponsors have committed funds. The attached budget anticipates that the meeting will yield a profit if paid attendance is 1530 or above. The ExCom voted to authorize a 3% increase in registration rates (0% increase in student rates) prior to the Telecon.

Registration and housing sign up should be available by June 1. Charges will be handled by an account in Meetings and More's name, and reciprocal membership registration will be possible. Abstract sorting will take place on August 15.

Phil Marcus noted that the minisymposium organizers should collect their own abstracts. These should not be submitted through the standard APS process.

The LOC will work with Mike Plesniak of the External Affairs Committee on handling check cashing for travel grant recipients as needed.

Mahesh is making significant efforts to avoid any Audio/Visual difficulties occurring during the meeting.

2010, Long Beach, Julian Andrzej Domaradzki (see Appendix)

Contracts have been signed with the convention center and three hotels (Hyatt, Renaissance, and Westin). The LOC has chosen the Aquarium of the Pacific as the reception site and signed a contract. They are currently working on assigning specific tasks to committee members.

The APS executive board will hold their annual meeting in Long Beach concurrent with the DFD meeting, and the LOC is aware of this.

2011, Baltimore, Andrea Prosperetti (see Appendix)

Due to the growth in attendance at the annual meeting in the last several years, it was decided that the original planned location (Marriott Waterfront) was too small. Therefore, the LOC proposes to cancel the contract on that meeting, forfeiting a deposit of $7500. Instead, the LOC is planning to use the Baltimore Convention Center for both the meeting and the reception. A contract is

currently being negotiated, and the terms, in combination with anticipated hotel rebates, appear favorable. Baltimore also has the advantage that APS is tax-exempt in the state of Maryland, and therefore, there will be no tax-related costs on the meeting and reception.

2012, Proposals,
Juan Lasheras said that UCSD would propose to host the 2012 meeting in San Diego. They are most interested in the Marriott as a venue (same venue as in 2001).

2008, San Antonio, Final Report, Sharath Girimaji (see Appendix)

- The meeting generated a profit of ~$53,400. Attendance was 1747 (a record high). A summary of meeting activities and the final budget are included in the Appendix.

3. Treasurer's report, Ellen Longmire (see Appendix)

The operating account balance is ~$480,000 and has been rising fairly steadily over the past 5 years, mainly due to meetings that generated profits. The award account balances have also been rising slowly.

4. Report on proposal for a new Division Award, Martin Maxey (see Appendix)

The 'Prize' committee provided several recommendations on the naming and criteria for the award. It was recommended that the award by named for Stanley Corrsin and that the award be directed toward mid-career candidates. It could be given to an individual or a small group. It is recommended that the award be given for a specific significant contribution rather than a large body of work. Recommendations for the nomination and selection process were also given.

The ExCom noted that the purpose of the new Award should be clearly different from that of the Fluid Dynamics Prize. Also, the ExCom supported having two committees, one for FD Prize and one for the new Award. It was noted that the chairs of the two committees should communicate to avoid overlapping nominations. There was some debate about the naming of the award.

Approval needs to be sought from Alan Chodos of APS.

5. Reports from officers and committees

Division Councillor, Jim Brasseur (see Appendix)

- DFD is the fourth largest division in APS with a current membership of 2745. Membership statistics are included in Appendix.
- The 2010 APS Council meeting will coincide with the DFD meeting in Long Beach. Jim proposed that DFD make a brief presentation at the Council meeting.

Program Committee, Juan Lasheras
The program committee received 11 proposals for minisymposia and 24 nominations for invited speakers. After extensive discussions by the committee, four minisymposia and eight invited speakers were approved for the November 2009 meeting. In case any of the invited speakers declined, alternate speakers were also chosen.

Ad Hoc Committee on Media and Press Relations, Jim Brasseur (see Appendix)
Jim Brasseur will propose in the future to make this a standing DFD committee.

External Affairs Committee, Ellen Longmire

- The ExCom approved the use of $15,000 in DFD funds to support the travel grant program.
- It was suggested that previous grant recipients should not be awarded a second grant. Upon checking, it was found that this guideline is followed already by the EA committee.

Ad Hoc Committee for Media and Public Relations, Jim Brasseur (see Appendix)

A report is attached detailing 2008 and 2009 efforts by the committee.

Other Business:

Phil will consider proposing the addition of a graduate student representative on the ExCom.

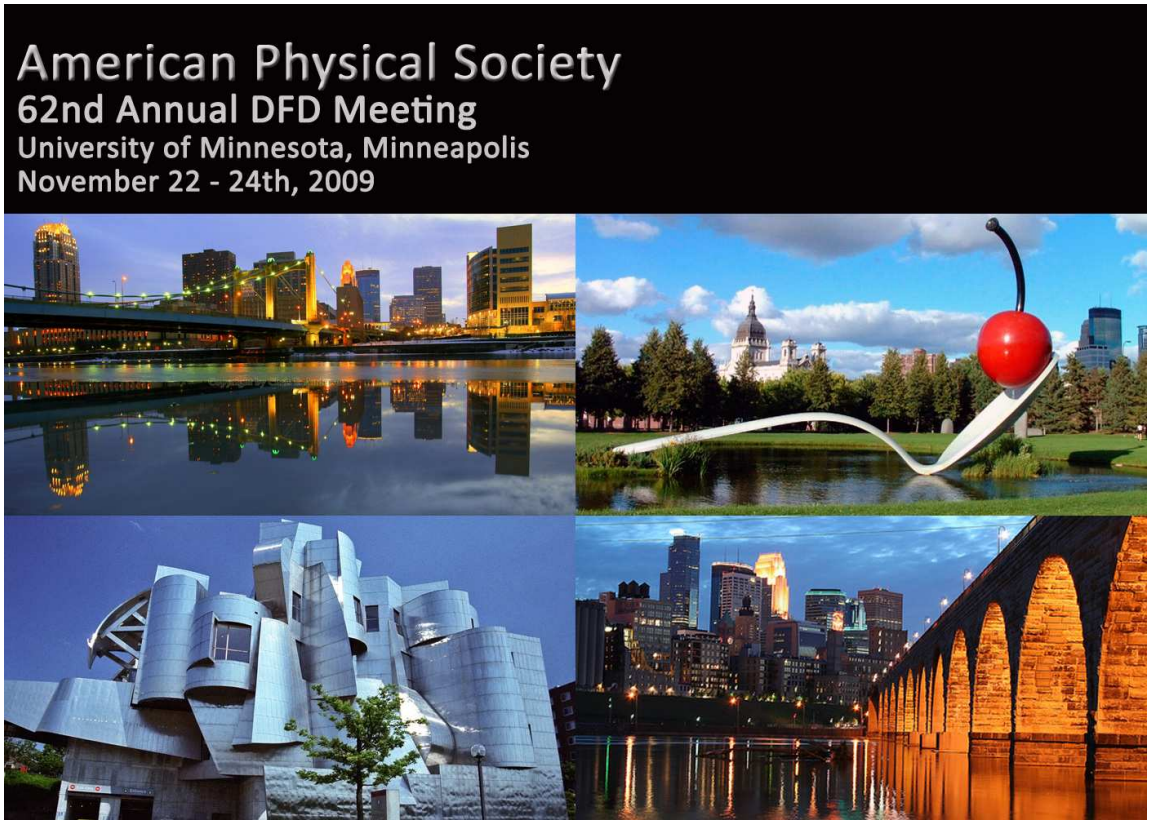
Jean Hertzberg will propose a lunch workshop on fluids education for the 2009 DFD meeting.

Phil noted that it is important to for all committee chairs to provide and add to 'living documents' describing the activities of their committee that can be passed on to their successors. Living documents also exist for the local organizers, and they need to continue to be developed for the chair, vice chair, chair elect, secretary/treasurer, and councillor.

The meeting was closed by Phil Marcus.

APS-DFD 2009 Meeting

University of Minnesota, Minneapolis



Status report to Executive Committee, May 18, 2009

Meeting Overview

Expect 1500 – 1700 attendees

Dates: Nov 22-24, 2009 ***Times:*** Sunday 8 am to Tuesday 1 pm

Meeting Events

Contributed talks

Duration: (10+2+1 minutes) 20 parallel sessions with 10 talks each

DFD Executive Committee Dinner

Invited Lectures (typically 2+4+2)

Sponsor exhibits

Gallery of fluid motion (poster + video; ~40 each)

Student luncheon (~14 X 9)

Awards Ceremony

Minisymposia (4)

Refreshments between sessions

Conference reception

NSF Career Workshop (~80)

Other Events

High School Teacher's Workshops

Education Minisymposium

Meet the editors

Geophysical Fluids Reception

Background

Pre-proposal submitted: May 27, 2006

Site visit: Monica Malouf, August 23, 2006

Proposal approved: November 18, 2006

Follow up site visit: Peggy Holland, May 19, 2008

Planned site visit: Peggy Holland, May 28-29, 2009

- **Organizing committee:** 14 fluids faculty from Aero, ME, ChemE, EE/CS, CE

Ellen Longmire (AEM),
Dan Joseph (AEM),
Kimberly Hill (SAFL),
Satish Kumar (ChemE),
Sean Garrick (ME)

Graham Candler (AEM),
Krishnan Mahesh (AEM),
Fotis Sotiropoulos (SAFL),
Mihailo Jovanovic (EE),
Martin Saar (Geophysics).

Tom Schwartzentruber (AEM),
Roger Arndt (SAFL),
Fernando Porte-Agel (SAFL),
Paul Strykowski (ME),

- **Meeting venue:** Minneapolis Convention Center in downtown Minneapolis

- **Reception venue:** Minneapolis Hilton

Accomodation (contracted)

- Minneapolis Hilton: Block of 600 – 640 rooms reserved
  Room rates: $148 + 13.775% state tax per night single/double

- Doubletree (0.1 miles): Block of 100 rooms reserved
  Room rates: $129 + 13.775% state tax per night single/double

Additional accomodation if needed (no contract)

- Holiday Inn (0.1 miles), Residence Inn, Marquette (0.2 miles)

Meeting overview

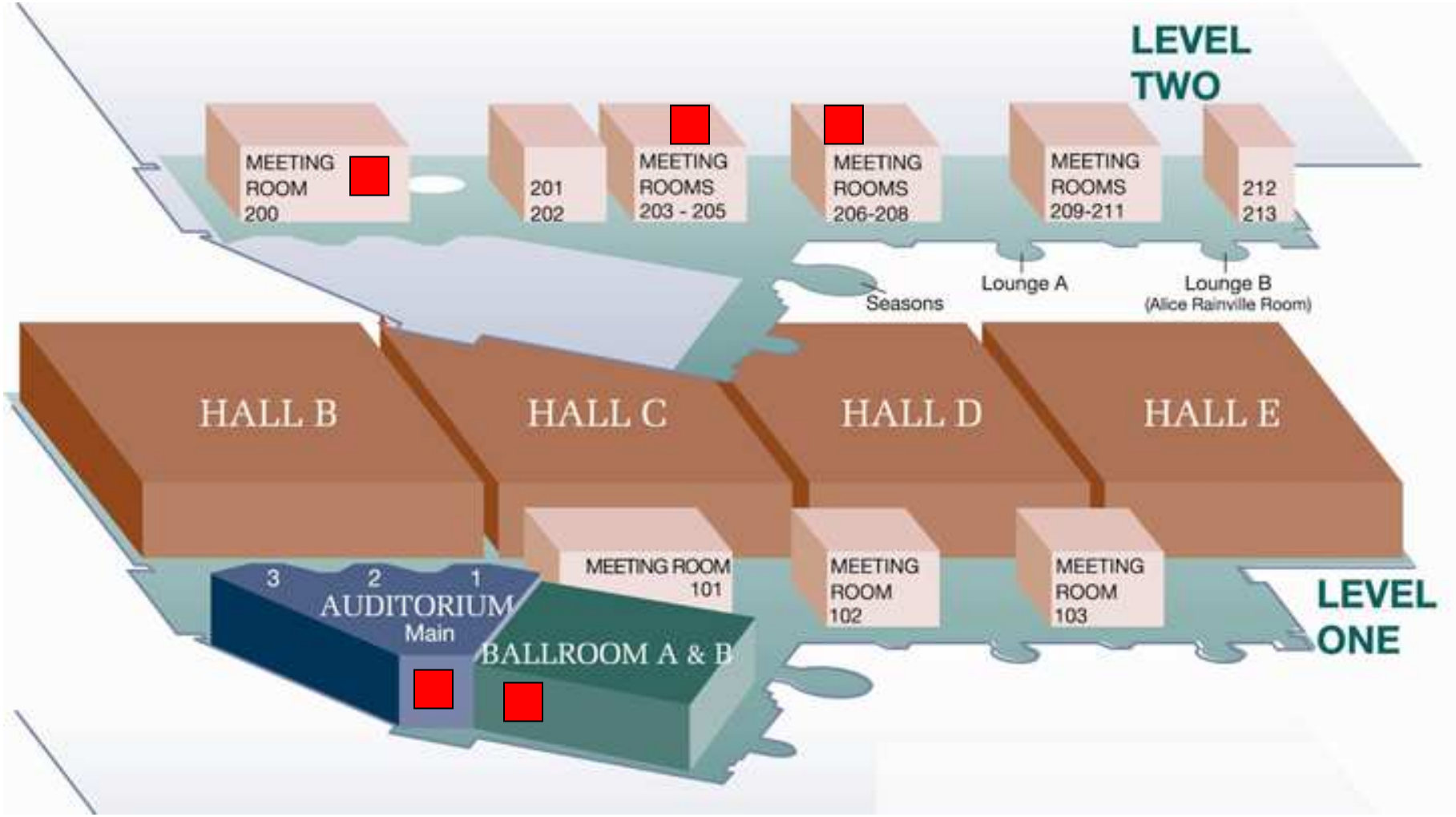
- 20 parallel sessions (expandable)
- All rooms on 1nd and 2nd levels
- Seating capacity: 10 rooms with 125 people 6 with 175
  2 with 300 2 with 600

Can expand to 21 sessions by converting one 300 person room to two 150 person rooms. Have more rooms (*102*) on reserve if need even more.

- Awards ceremony in Main Auditorium (seats 2143 expandable to 3433)
- Exhibitors, galleries and breaks in Ballroom A (18000 sq ft.)

Convention Center

http://www.minneapolisconventioncenter.com/



- Meeting on Levels 1 and 2; rooms indicated with red squares.

Level 1 layout

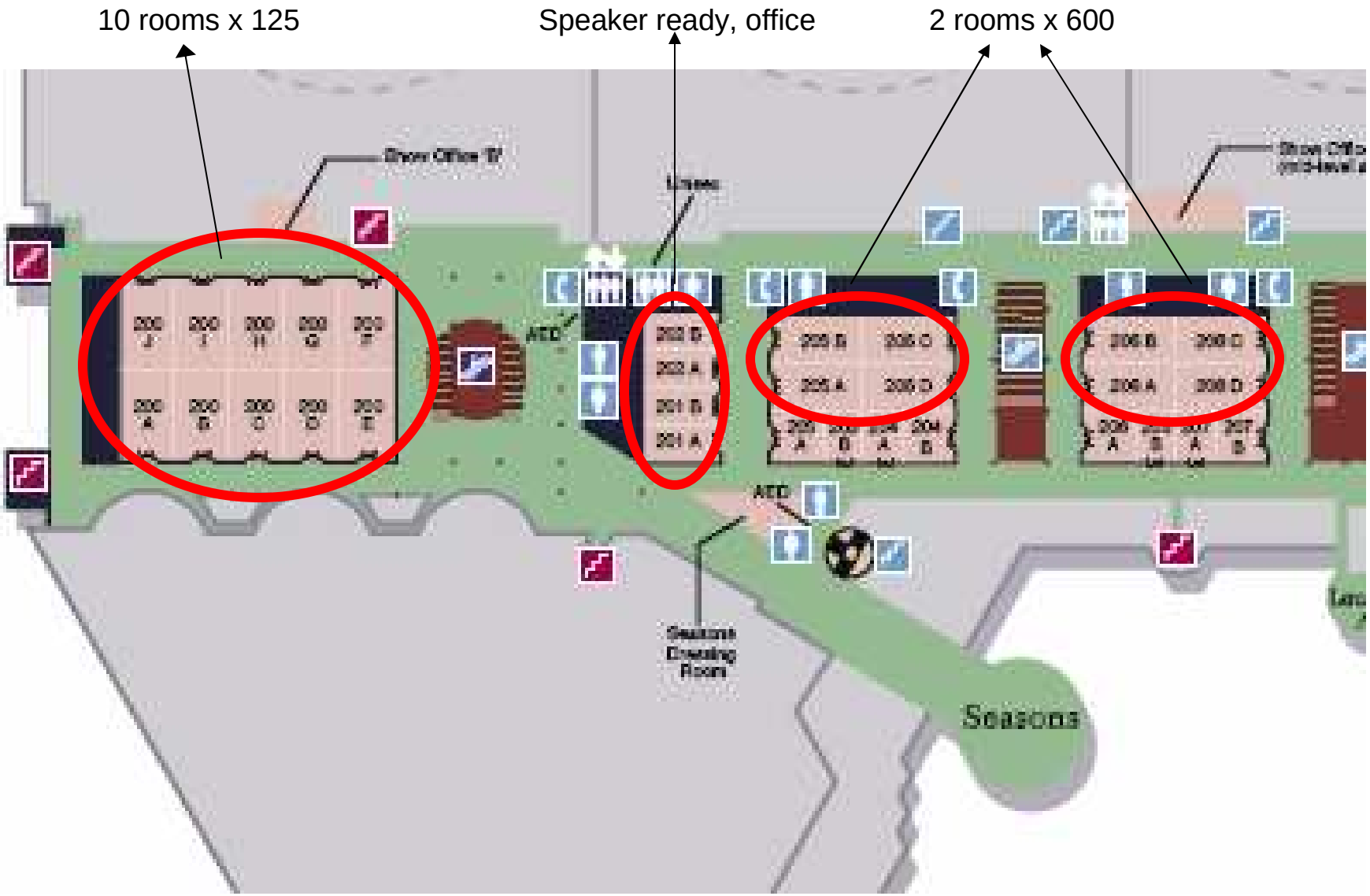
6 rooms x 175

2 rooms x 300

Exhibits, breaks

Awards

Level 2 layout



Awards ceremony in Auditorium

Hilton Minneapolis: Primary hotel & reception venue
http://www1.hilton.com/en_US/hi/hotel/MSPMHHH/index.do

Lobby

Outside Grand Ballroom

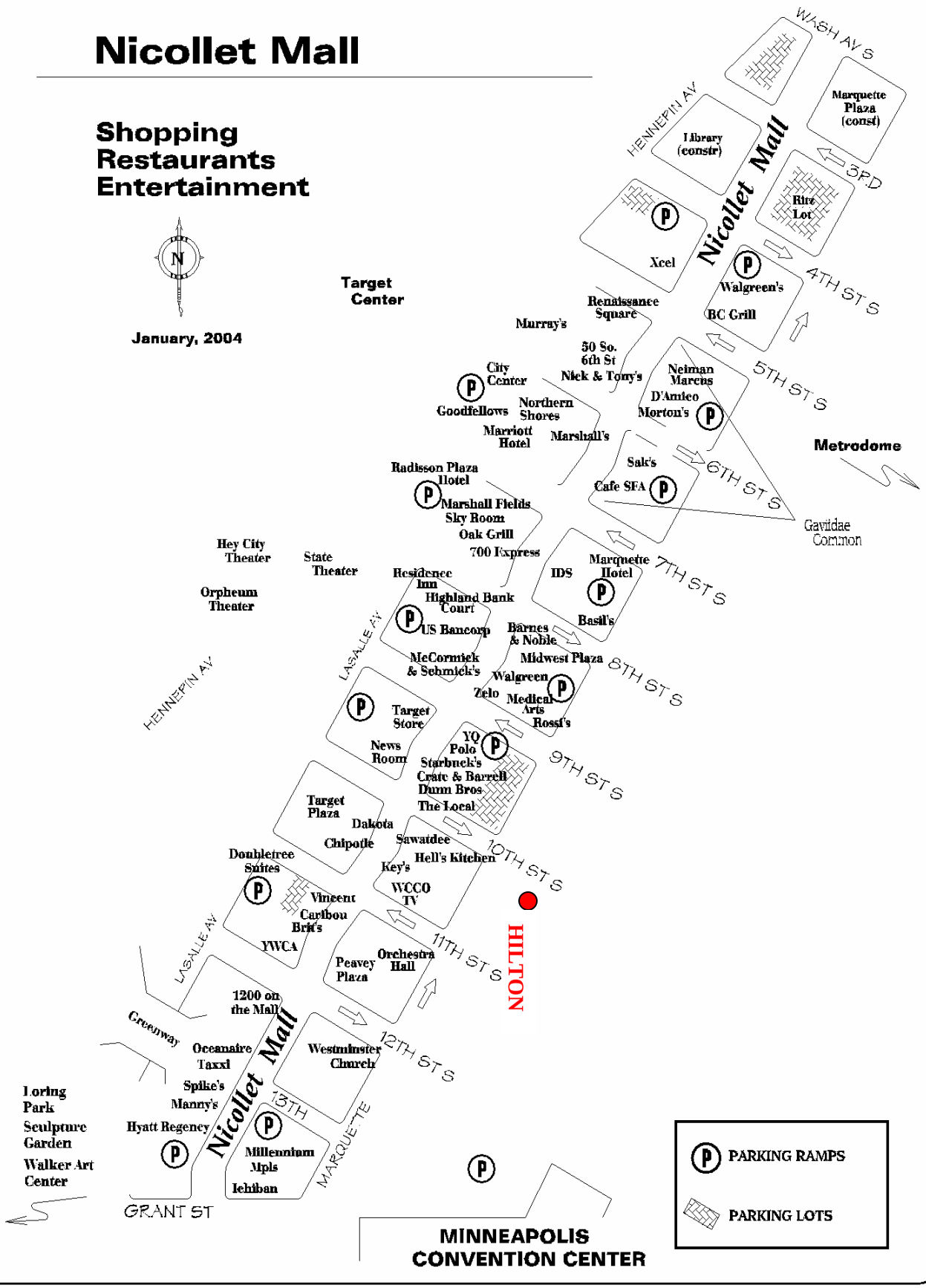
25000 sq. ft

Rec center

Skyway to Convention Center

Nicollet Mall

Shopping
Restaurants
Entertainment



Tasks status

- Meeting website up (dfd2009.umn.edu)

- Committee responsibilities assigned

  Abstracts: Ellen, Mahesh (Sorting Aug. 15, 2009)

  Timing: Mihailo

  Gallery of fluid motion: Fotis, Sean

  NSF Career Workshop: Arndt

  Student luncheon: Fernando

  UMN booth: Satish

  Session management:

    Student volunteers (25-30 unassigned)

    Faculty supervisors (4, Jian, Tom, Kimberly, Martin)

Career luncheon

- NSF will continue support. Marc Ingber will preside
- Email membership – apply via online form (almost done)

Session management plans

- Each room will have 1 student volunteer at all times.
- Volunteer will sit up front and proactively connect speaker laptops, report /solve (obvious) problems and fill in for missing session chairs

A/V

- Site visit by CMI end of May
- Quotes examined for following options:

  2008 specs, laptops with preloaded talks, increased resolution projectors, increased switch sizes, 1 technician per two rooms
- Warn/scare speakers about potential problems – resolution, sleep/hibernate, MAC adaptors (student volunteers will also be instructed)
- Will have half the rooms available on Friday for setup

Session chairs

- Want to decide potential chairs before sorter's meeting. Assign first author as chair as much as possible
- Email membership – apply via online form (almost done)
- Online form linked to courses database in AEM. Allows personalized emails to session chairs with session, room and time to be easily emailed.
- Will email chairs early September, follow up with reminder in week prior to meeting. Will insert the information in their packets, and have ribbons on their badges. Student volunteers as final backup.

Registration

- The Housing Connection is setting up the forms. Hope to be up June 1.
- Charges handled through merchant account in Meeting & More's name.
- 2009 registration fees approved by Executive committee via email
- Reciprocal membership registration will be listed this year

Exhibits/sponsorships

- Have email commitments for about 25k above regular exhibitors. Waiting on some more candidates.

Budget

- Attached for approval
- Note taxes are high (10 – 14 %). Last year had tax exemptions.
- Last year’s attendance 1680.
- For 2009, with 1580 attendees, 8k profit. With 1480 attendees, 9k loss.

	Projected based on paid attend		1580	1680
Income				
Registration	Number	Fee	Projected Cost	**08 Reg Numbers**
Early APS	523	$ 340	$ 177,813	559
Early non-APS	88	$ 570	$ 50,434	91
Early Student	534	$ 155	$ 82,776	569
Early Retired	14	$ 155	$ 2,116	18
Under Graduate	53.72	$ 10	$ 537	59
Late APS	182	$ 400	$ 72,680	193
Late non-APS	40	$ 630	$ 24,885	43
Late Student	142	$ 185	$ 26,307	150
Late Retired	4	$ 185	$ 722	2
total pd. Registrations	1580			1684
Registration Income:			$ 438,270	
Booths+sponsor	6 regular@2500 + 25k new		$ 40,000	
Housing Income	324	$6.00	$ 1,944	
Bag Insert & Lit. Table	5	$500	$ 2,500	
Added Cancellation Fees			$ 1,460	
Guest Reception Tickets	72	$ 75	$ 5,400	
Minus Membership	Number	Cost		
Membership 08 total			$ 13,605	
Net Income:			$ 474,509	

Net Income:		$ 474,509		
Expenses:				
MN Convention Center Rental		$ 26,600		
Attorney Fees		$ 700		
Conference Services and materials		$ 5,550		
(internet and telephone access include above)		$ -		
Signage/Furniture/Booths/Shipping		$ 12,000		
Additional Design Work		$ -		
Registration		$ 35,403	Fee based on 1700 attendees	
Credit Card Fees		$ 11,325		estimated
Registration Travel Expenses for Management			This is included in Reg. Fee	
Video Gallery A/V (Included in AV and timing)		$ -		
A/V and Timing		$ 70,000		
Highschool Program		$ -		
Hotel (invited Speakers/Staff)		$ 2,500		
Food and Beverage				
Breaks	$ 55	$ 78,210		
Exec Dinner		$ 3,400		
Student luncheon	$ 25	$ 3,150		
Reception	$ 65	$ 92,430		
Reception Entertainment		$ 800		
Buses to Reception		$ -		
NSF Lunch		$ -		
Box lunches/Breakfast (staff and local committee)		$ 1,900		
Water		$ 700		
Printing and Promotion				
BAPS		$ 52,865		
Reception Card		$ -		
Synoptic-design/print		$ 10,000		
Bags		$ 4,000		
Postcards, posters		$ 1,275		
Meeting management:				
Meetings and More 2009 meeting fee		$ 40,500		
Direct Meeting Expenses (travel & meals for act		$ 1,309		
2010-2011 meeting costs charged to 2009		$ 3,500		
site visit travel to MN		$ 1,200		
Web site and signage design		$ 1,500		
Promotional mailing		$ -		
Security		$ 3,500		
Paramedic		$ 950		
Sorters Meeting		$ 350		
Miscellaneous		$ 1,000		
(tips, office supplies...)				
Total Expenses:		$ 466,617		
Net		$ 7,892		

Report from the 2010 organizing committee
for the DFD Executive Committee Meeting, May 18, 2009
Prepared by Julian Andrzej Domaradzki (USC)

Local Organizing Committee:

USC: Domaradzki (Chair), Blackwelder, Campbell, Kanso, Muntz, Newton, Phares, Pottebaum, Redekopp, Ronney, Sadhal, Spedding; **UCLA:** Eldredge, Karagozian, Kim, Kavehpour; **Caltech:** Brady, Colonius, Dabiri, Hunt, Leonard, McKeon; **CSULB:** Rahai

The Local Organizing Committee held its most recent meeting on May 8, 2009.

Convention Center, Hotels, and Sunday Reception Venue:

All major contracts have been negotiated and signed: the Convention Center, the Hyatt ($189/night, peak 375 rooms), the Westin ($169, 125), the Renaissance ($169, 150), and Aquarium of the Pacific as the Sunday reception venue ($52/person, inclusive of tax plus gratuity, but without drinks). There were negotiations with Courtyard (price TBD, 100 rooms) and Best Western ($139, 60 rooms) but no contracts were signed because there is concern that we may be over committing in bad economy. Overall, there are total of 16 hotels/motels in the downtown area within a walking distance of the LBCC (or by free local shuttle) with a total of about 3000 rooms.

Action items to be accomplished before next meeting of the local committee in October 2009:

At the most recent meeting of the local committee we began assigning specific tasks to the committee's members. I have prepared a list of things that must be taken care of in the near future, before our next local meeting scheduled for early October in Long Beach. Several members of the committee volunteered to do some tasks already. Volunteers for the tasks that are still open (in red font) are being currently solicited.

Define roles for organizing committee members:

Principal points of contact for each school:
Colonius (Caltech);
Domaradzki (USC);
Karagozian and Eldrege (UCLA);
Rahai (CSULB).

Website: Colonius to check the Google option; Domaradzki USC options.
Video gallery: Ronney
Meeting's postcard: Sadhal
Poster session: ??
Timing of sessions: ??
Fluid mechanics education and High School teachers' program: ??
Media and PR (to work with APS Ad Hoc Committee for Media and Public Relations): ??
Reception for women scientists: ??
Entertainment and accompanying persons program: ??
Others: ??

Solicit support, financial and other, from:

USC : Domaradzki
UCLA: Karagozian
Caltech: Colonius
CSULB: Rahai
Boeing: Rahai
Northrop-Grumman: Colonius
Rocketdyne: Karagozian
Port of Long Beach: Rahai
NSF: Domaradzki
ONR: Domaradzki
AFOSR: ??
Aerospace Corporation: ??
AeroVironment: ??
Long Beach Transport: ??
Jet Blue: ??
Others:??

Invited speakers:

Invited speakers will have to be approved by the APS program committee. The local organizing committee can have some impact on the selection by proposing candidates early. Anyone can and should email me names of potential speakers that will be discussed at the next meeting or before.

Welcome speaker:

An interesting option is to invite the Mayor of Long Beach. Or it could be a science person as usual, e.g., a top officer of the main APS or a well known in the community Dean or President from one of the organizing schools. Anyone can and should email me names of potential welcome speakers that will be discussed at the next meeting or before.

Disseminate information about DFD meeting to increase participation:

The APS and other web site/calendars; coordinate the APS DFD Executive Comm. meeting with the APS Executive Comm. meeting if collocated in 2010: Domaradzki.

Because of our location we should make a special effort to attract participants from the Pacific Rim countries. There are several ways to do it. For instance, members of some foreign societies are allowed to register using APS member rates but apparently this option only this year will be available on the registration form; we should make sure that it is available and properly advertised for the 2010 meeting. Need to check if regional sessions are possible, i.e., can we organize “The Pacific Rim” session at the meeting?

Attract participants from the Pacific Rim countries:??

Attract participants from other specific countries/regions of the world (e.g., Mexico, Europe): ??

2011 APS DFD Meeting in Baltimore MD

Report to the APS Executive Committee

by Andrea Prosperetti
Department of Mechanical Engineering, Johns Hopkins University
May 12, 2009

Meeting Venue. The initial proposal for the meeting in Baltimore was submitted before the Tampa meeting, which had an expected attendance of about 1,300. In fact, actual attendance was somewhat higher, and it has crept up since increasing by more than 400 additional participants over our initial estimate. This situation has forced us to conclude that the Baltimore Marriott Waterfront Hotel would not be large enough to accommodate our meeting. Hence we propose to cancel the Marriott contract, paying a penalty of $ 7,500 if we do so before November 1, 2009, and to move the meeting to the Baltimore Convention Center. A significant advantage to the participants is that the rooms in the surrounding hotels can be contracted at a significantly lower rate – from about $ 129 to $ 151 per night as opposed to $ 190 at the Marriott. Furthermore, the hotels have agreed to give us a rebate of $ 6 per night per room, which will more than compensate for the penalty to be paid to the Marriott.

Reception. Another change to the original plan concerns the reception venue. We now feel that the National Aquarium would be somewhat too small and costly, in addition to being farther away from the new meeting venue than before. Thus we currently plan to hold the reception on Sunday evening Nov. 20, 2011, at the Convention Center. This will also decrease the cost somewhat, as explained below.

Budget. We have two proposals from the Baltimore Convention Center, both including 26 rooms for the parallel sessions, administration and speaker-ready, 2 (combined) ballrooms for exhibitors and coffee breaks and an additional ballroom to be used on Sunday and Monday for the NSF and student luncheons.

A. The more expensive proposal is for $ 48,670.

B. The cheaper proposal, for $ 42,180, applies if we hold the reception at the Convention Center and guarantee a total expenditure (reception and coffee breaks) in excess of $ 100,000 for food and beverages; note that the total food and beverage bill for San Antonio was in excess of $ 130,000 excluding tax and gratuity.

C. The price can be reduced by an additional $ 2,125 if we move the student luncheon to a neighboring hotel, which can be done at no cost.

D. Note also that APS is tax-exempt in the state of Maryland, while it does not enjoy this status in either Minneapolis or Long Beach. In these locations APS will incur taxes ranging from about 6% to 14% in 2009 and 2010 depending upon the service.

The 2008 DFD meeting was held in November at the San Antonio Convention Center in San Antonio, Texas. Highlights included three award lectures, eight invited lectures, and approximately 1500 additional contributed papers. A total of about 150 contributed sessions covered a wide range of fluid dynamics topics. There were 55 poster entries and 38 video entries submitted to the Gallery of Fluid Motion. Total registration was 1747, 28% of which were international attendees representing 35 countries. This included 59 undergraduates and 720 graduate students. Invited lectures were presented by Alec Gallimore (U. Micihgan), Stephen Fauve, (Ecole Normale Superieure, Paris), Elaine Oran (Naval Research Laboratory), James Brasseur, (Penn State), David Youngs (Aldermaston, UK), Joseph Fernando (Arizona State), Patrick Tabeling (MMN-ESPCI, Paris) and Paolo Padoan (UCSD). In addition, the meeting included six mini-symposia: videos and multimedia for Fluids Instruction; Lagrangian Coherent structures in Fluid Flows; Flow visualizations in low temperature Helium; High Raleigh Number convection: Is there an ultimate regime?; Tip streaming and Flow/EHD Flow focusing; and Computational challenges in modeling transient detonation. Highlights from the winning poster and video entries will be published in a special Gallery of Fluid Motion article in the September 2008 issue of Physics of Fluids as well as being posted on the Physics of Fluids web site.

A highlight of the 2008 DFD meeting was the enthusiastic participation by group of about 40 students and junior researchers from various universities across Mexico. Travel and lodging were sponsored by Halliburton and Schlumberger.

Here are some further comments based on our 2008 meeting organization:

1) Mini-symposia abstract handling needs to be more streamlined.
2) Improve back-up plans for AV-system failures.
3) Improve back-up plans for session chair no shows.

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2008 FINAL BUDGET

APS 2008 Budget-November, 2009							
	Projected based on paid attendece of:		1686				
Income							
Registration	Number	Fee	Projected Cost	Actual Cost	Actual Number		
Early APS	548	$330	$ 180,840	$ 184,470	559		
Early non-APS	93	$555	$ 51,615	$ 50,505	91		
Early Student	548	$155	$ 84,940	$ 88,195	569		
Early Retired	18	$155	$ 2,790	$ 2,790	18		
Graduate St. 1 day os				$ 92	1		
Member one day os				$ 195	1		
Under Graduate				$ 1,600	59		
Late APS	150	$390	$ 58,500	$ 75,270	193		
Late non-APS	69	$610	$ 41,858	$ 26,230	43		
Late Student	255	$185	$ 47,175	$ 27,750	150		
Late Retired	4	$185	$ 770	$ 370	2		
total pd. Registrations	1685				1686	plus 61 comp = 1747	
Booths	12	$1,800	$ 21,600	$ 11,800	6@1800, 2@1000,2@0		
Registration Income:			$ 490,089	$ 469,267			
	Room Nights	Income/rm					
Housing Income	2400	$6	$ 14,400	$ 15,012			
Bag Insert & Lit. Table			$ 600	$ 1,475			
Added Cancellation Fees				$ 1,460			
Guest Reception Tickets				$ 5,400	72		
Minus Membership	Number	Cost					
Full membership	162	$111	$ 15,633				
Student membership	350	$10	$ 3,500				
Membership 08 total				$ 13,605			
Net Income:			$ 507,556	$ 490,809			
Expenses:							

2008 FINAL BUDGET

San Antonio Convention Center Rental			$	21,000	$	19,920		
Attorney Fees				N/A	$	-		
Conference Services and materials			$	3,300	$	5,550		
(internet and telephone access)					$	-		
Signage/Furniture/Booths			$	12,000	$	11,507		
Additional Design Work			$	800	$	-		
Registration			$	34,000	$	35,403		
Credit Card Fees			$	10,000	$	11,325		
Registration Travel Expenses for Management			$	2,500	$	1,158		
Video Gallery A/V (Included in AV and timing)			$	-	$	-		
A/V and Timing			$	70,000	$	67,503		
Highschool Program			$	-	$	-		
Hotel (invited Speakers/Staff)			$	3,000	$	2,500		
Food and Beverage								
Breaks		$55.00	$	83,457	$	66,190		
Exec Dinner			$	3,200	$	3,400		
Student luncheon		$22.00	$	2,772	$	2,495		
Reception		$55.00	$	83,457	$	89,284		
Reception Entertainment			$	1,000	See Reception			
Buses to Reception			$	3,500	$	2,264		
NSF Lunch			$	-				
Box lunches/Breakfast (staff and local committee)			$	2,000	$	1,479		
Water			$	1,000	$	570		
Printing and Promotion								
BAPS			$	50,000	$	52,865		
Reception Card			$	800	$	-		
Synoptic-design/print			$	9,500	$	9,894		
Bags			$	4,000	$	5,283		
Postcards, posters			$	600	$	600		
Meeting management:								
Meetings and More 2008 meeting fee			$	40,500	$	40,500		
Direct Meeting Expenses (travel & meals)			$	2,100	$	1,309		
2009-2010 meeting costs charged to 2008			$	2,000	$	761		

2008 FINAL BUDGET

site visit travel to San Antonio and misc. exp.				$ 704			
Web site and signage design			$ 1,500	$ -			
Promotional mailing			$ -	-			
Security			$ 2,000	$ 3,504			
Paramedic			$ 700	$ 760			
Sorters Meeting			$ 350	$ -			
Miscellaneous			$ 2,000	$ 590			
(tips, office supplies...)							
Total Expenses:			$ 453,036	$ 437,317			
Net			$ 54,520	**$ 53,492**			

DFD Treasurer's Report, Ellen Longmire

Award Account Balances

Award	3/31/09	3/31/08	3/31/07	3/31/06
Acrivos	$76,511	$74,404	$71,595	$68,755
Fluid Dynamics Prize	$136,025	$137,911	138,692	140,575
Laporte	147,113	137,822	128,534	119,870
FDP + Laporte	283,138	275,733	267,226	260,445

Each year, the FD Prize recipient receives a check of $10000 and travel allowance to the Nov. meeting paid from the FD + Laporte accounts. The Acrivos recipient receives $1000 plus an allowance of up to $1500 for travel to DFD meeting. (The Frenkiel recipient receives $1000 from the DFD operating account).

Operating Account Balance

Account	3/31/09	3/31/08	3/31/07	3/31/06	3/31/05
Operating	$480,101	429,015	360,069	355,314	313,682

From this balance, a small amount has been used for deposits on future meeting sites (~13k). The vast majority of our income is derived from meeting registration fees. We earn a small return on investments each year (we did not suffer any significant losses in the past year) and receive ~14k in DFD dues. The vast majority of our expenses are related to our annual meeting. As stated previously, the American Physical Society recommends that each division's operating account have a balance equal to the typical of cost of one its Annual Meetings. Based on expenses for recent meetings, our account balance remains within these guidelines.

Recent Meetings

Meeting	Income	Expense	Profit (loss)
San Antonio (2008)	490,809	437,317	53,492
Salt Lake (2007)	418,541	386,815	31,725
Tampa (2006)	380,700	353,190	27,510
Chicago (2005)	441,087	421,913	19,174
Seattle (2004)	336,979	308,922	28,057
NJ (2003)	308,860	329,396	(20,536)
Dallas (2002)	258,420	249,035	9,385

Amended Report from Prize Committee
Proposal for new Fluid Dynamics Award
January 23, 2009

Following the Executive Committee meeting at the APS-DFD meeting in San Antonio in November, the Prize Committee (2008) reviewed the comments and suggestions made. After discussions, conducted by email, a consensus was reached and the following recommendations are made.

Naming of the award

Several possible names were considered. The consensus was that the award should be named after a distinguished fluid dynamicist, who has been active in APS-DFD. In addition, we felt it would not be appropriate to name it after a living individual. This eliminated some names under consideration – we are glad that they are still with us.

Our recommendation is to name the award after Stanley Corrsin. Besides his distinguished career in fluid dynamics research, Stan was a preeminent teacher and encouraged many scientists as they developed their own careers. He was also very supportive of new initiatives that today we accept as mainstream research in fluid dynamics.

Stanley Corrsin died in 1986. There is memorial note on Stan by Hans Liepman, see http://books.nap.edu/openbook.php?record_id=1384&page=94
There is also a note by Steve Davis and John Lumley in Annual Reviews of Fluid Mechanics Vol. 35: 1-10 (2003)

Features of the award

The award is to be directed towards mid-career candidates. This is deliberately not defined in the criteria for the award. Informally, one may expect a career to span 35-40 years following a PhD. An individual at the PhD + 20 years would still be seen as mid-career for example.

There is the option of making the award to either an individual or to a small group. This practice is followed by other Divisions in APS.

Criteria for the proposed award

The Stanley Corrsin Award

The award honors an outstanding research contribution in fluid dynamics. The award consists of $5,000 and a certificate citing the contribution made by the recipient(s). It will be presented annually.

Establishment & Support

This prize was established in 2009 from an endowment fund contributed by the DFD and held by the APS.

Rules & Eligibility

This award is given for a particularly influential contribution to fundamental fluid dynamics. It is intended to honor a recent achievement of especially high impact and significance, a particular discovery, or an innovation in the field rather than a large or lifetime body of work of an individual. The award shall be ordinarily made to one individual, but may be shared by two or three if all the recipients have contributed to the same accomplishment. The award is primarily directed towards mid-career candidates, but there are no limitations on the age of the nominee(s), nor are restrictions placed on the candidate's citizenship or country of residence. Nominations will be held for three consecutive years. The award to a previous recipient must be justified by outstanding contributions that are different from those for which the previous award was given.

Nomination & Selection Process

Nominations are solicited from the membership and should be submitted to the Vice-Chair of the DFD Prize & Award Committee by …..(date)….

The nomination package should include:

- A letter of not more than 1,000 words identifying and evaluating the contribution that is being honored.
- The publications that describe the particular contribution, including reprints (if not available on the Internet) and a list of related articles.
- Biographical sketches.

Councillor's Report
for the DFD Executive Committee, 18 May 2009
Jim Brasseur, DFD Councillor

The DFD Councillor represents the DFD at the APS Council Meetings and reports back to the DFD any issues at the APS level potentially of interest to the DFD. In addition, I am also a member of the APS Executive Committee. There has been one meeting of the APS Council (1 May, 2009) and two meetings of the APS Executive Committee (7 February 2009, 30 April 2009) since the November DFD meeting of the DFD Executive Committee. This report summarized important issues from these meetings.

1. **Presidential Line**. The current President of the American Physical Society is Cherry Ann Murray, Principal Associate Director for Science and Technology Lawrence Livermore National Laboratory. The president elect is Curtis G Callan Jr, Department of Physics, Princeton University.

2. **APS membership (see attachment 1).** The number of member of the APS had increased by about 1,000 with an official 2009 membership number of 47,189. Most of the gain was due to an increase in student membership and that there had been a small decrease in regular members. As shown on Attachment 1, the DFD is the 4th largest division in the APS (out of 14).

2. **The new journal, "*Physics*"**. As mentioned in the November 2008 meeting of the DFD Executive Committee, the APS has created a new journal called "*Physics*" (physics.aps.org) to highlight "exceptional" research papers from the APS journals. The *Physics of Fluids* is not among the journals from which papers are highlighted since this is an AIP journal. Although this will remain the case in the foreseeable future, I asked the Editor in Chief (Gene Sprouse) to create a designation, "fluid dynamics," separate from "nonlinear dynamics." This has now been done.

3. **APS Council meeting to coincide with the DFD Annual Meeting in 2010.** Brasseur's proposal for APS Council meeting to coincide with the DFD Annual Meeting in 2010 has been accepted. The Council and Executive Board of the APS will meet on the Friday and Saturday of the DFD meeting giving us the opportunity to draw attention to the DFD and the field of fluid dynamics to the other societies within the APS. I shall make the request that the DFD president give a brief discussion of the DFD and invitation to observe our meeting (especially the Gallery of Fluid Motion), and I wish to propose that we invite one or two members of the APS Executive Committee to make a brief presentation at our meeting. We should plan in advance.

4. **Washington Funding Report (see attachment 2).** There is great pleasure in the attitude and pronouncements of the new administration towards science, and with the appointment of Steven Chu as Secretary of Energy. Correspondingly the stimulus, new federal budget, and projections for future budgets suggest a brighter picture for science funding. These figures are displayed the attachment. There was caution to recognize, however, that the increases in the funding agencies are not expected to be nearly as large in the coming years. (I also note that Steve Orzag's son, Peter Orszag, is President Obama's Director of the Office of Management and Budget.)

5. **New Executive Officer of the APS**. Judy Franz is retiring as Executive Officer of the APS. After a certain amount of trial and tribulation, a new executive officer has been chosen: Dr. Kate Kirby, research physicist at the Smithsonian Astrophysical Observatory and lecturer in the Harvard University Department of Astronomy.

6. **International Affairs**. From a report from Amy Flatten: "The perception that existed for several years after 9/11 that the United States was not a welcoming place for students to study has largely dissipated because of hard work that was done to overcome delays in visa application processing. However, recent statistics indicate that a new round of backlogs has developed, prompting the State Department to consider new, major policy announcements on visas that will hopefully fully address problems faced by students and visiting scientist seeking to visit the US. Flatten stated the announcement is expected sometime in May."

7. **Establishment of the APS Committee on Informing the Public.** A committee containing some elements similar to the ad hoc DFD Committee on Media and Public Relations has been formalized within the American Physical Society after having existed as an ad hoc committee for nearly three years.

8. **Establishment of the APS Topical Group on Energy Research and Applications**. A new topic group on energy has been created within the APS.

OFFICIAL 2009 UNIT MEMBERSHIP STATISTICS

ATTACHMENT 1

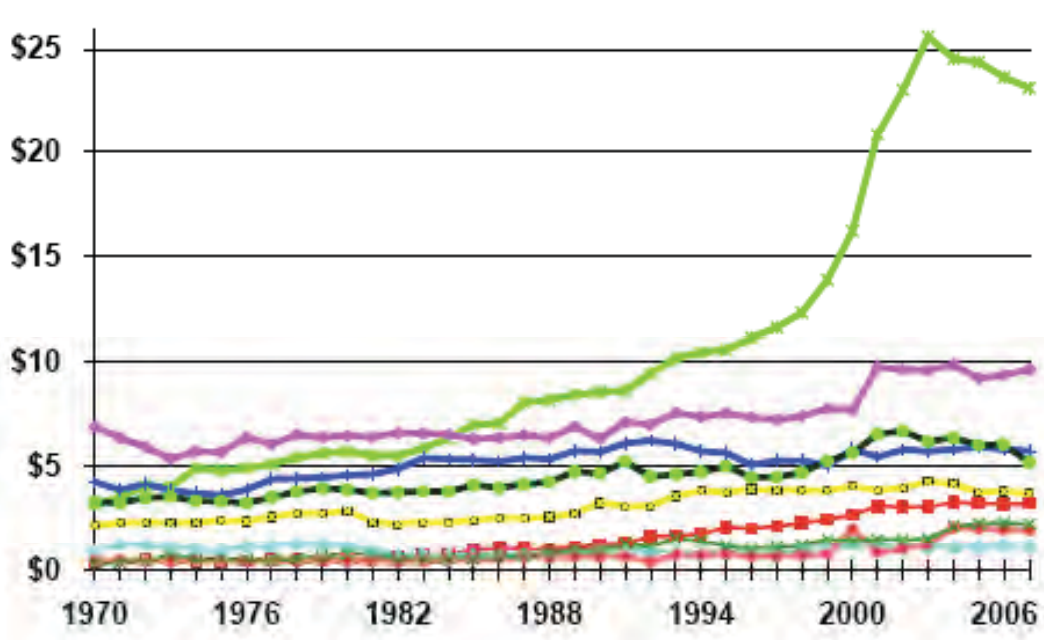
UNIT										
	2005	2006	2007	2008	2009	2005	2006	2007	2008	2009
DIVISIONS										
Atomic, Molec & Optical	2,582	2,703	2,780	2,832	2,885	5.94%	5.94%	6.01%	6.12%	6.11%
Astrophysics	1,789	1,901	1,979	2,114	2,164	4.12%	4.18%	4.27%	4.57%	4.59%
Biological	1,682	1,783	1,850	1,881	2,048	3.87%	3.92%	4.00%	4.07%	4.34%
Computational	1,925	1,985	2,049	2,129	2,201	4.43%	4.36%	4.43%	4.60%	4.66%
Condensed Matter	5,380	5,292	5,387	5,592	5,717	12.38%	11.63%	11.64%	12.09%	12.12%
Chemical	1,758	1,742	1,788	1,782	1,740	4.04%	3.83%	3.86%	3.85%	3.69%
Fluid Dynamics	1,580	2,610	2,655	2,735	2,745	3.64%	5.73%	5.74%	5.91%	5.82%
Polymer	1,232	1,252	1,342	1,254	1,358	2.83%	2.75%	2.90%	2.71%	2.88%
Laser Science	1,295	1,330	1,331	1,363	1,384	2.98%	2.92%	2.88%	2.95%	2.93%
Materials	2,259	2,315	2,419	2,453	2,680	5.20%	5.09%	5.23%	5.30%	5.68%
Nuclear	2,401	2,452	2,519	2,624	2,578	5.52%	5.39%	5.44%	5.67%	5.46%
Physics of Beams	1,144	1,227	1,180	1,210	1,196	2.63%	2.70%	2.55%	2.62%	2.53%
Particles & Fields	3,291	3,368	3,371	3,470	3,461	7.57%	7.40%	7.28%	7.50%	7.33%
Plasma	2,489	2,518	2,520	2,498	2,513	5.73%	5.53%	5.44%	5.40%	5.33%
TOPICAL GROUPS										
Few Body Systems	341	330	327	320	308	0.78%	0.72%	0.71%	0.69%	0.65%
Fundamental Constants	398	415	433	419	416	0.92%	0.91%	0.94%	0.91%	0.88%
Gravitation	729	817	921	1,018	1,020	1.68%	1.79%	1.99%	2.20%	2.16%
Hadronic	304	337	355	366	397	0.70%	0.74%	0.77%	0.79%	0.84%
Instr & Measure Sci	548	582	601	606	566	1.26%	1.28%	1.30%	1.31%	1.20%
Magnetism	677	705	778	836	835	1.56%	1.55%	1.68%	1.81%	1.77%
Plasma Astrophysics	274	343	365	370	368	0.63%	0.75%	0.79%	0.80%	0.78%
Quantum Information	218	557	755	886	929	0.50%	1.22%	1.63%	1.91%	1.97%
Shock Compression	335	379	367	407	354	0.77%	0.83%	0.79%	0.88%	0.75%
Statistical & Non-Linear	808	841	895	944	945	1.86%	1.85%	1.93%	2.04%	2.00%
FORUMS										
Education	4,214	4,421	4,598	4,646	4,595	9.70%	9.71%	9.93%	10.04%	9.74%
Graduate Student Affairs	1,827	2,426	2,865	3,343	3,719	4.20%	5.33%	6.19%	7.23%	7.88%
History	3,389	3,725	3,854	3,928	3,776	7.80%	8.18%	8.33%	8.49%	8.00%
Indust & Applied	5,792	6,364	6,644	6,740	6,772	13.33%	13.98%	14.35%	14.57%	14.35%
International	2,853	3,246	3,437	3,608	3,655	6.56%	7.13%	7.42%	7.80%	7.75%
Physics & Society	4,845	5,311	5,548	5,805	5,874	11.15%	11.67%	11.98%	12.55%	12.45%
SECTIONS										
California	1,369	1,904	2,072	2,305	2,302	3.15%	4.18%	4.48%	4.98%	4.88%
Four Corners	911	1,025	1,113	1,260	1,493	2.10%	2.25%	2.40%	2.72%	3.16%
New England	1,965	2,234	2,327	2,413	2,371	4.52%	4.91%	5.03%	5.22%	5.02%
New York State	1,938	2,167	2,290	2,436	2,503	4.46%	4.76%	4.95%	5.26%	5.30%
Northwest	916	1,038	1,106	1,160	1,181	2.11%	2.28%	2.39%	2.51%	2.50%
Ohio	1,211	1,375	1,516	1,498	1,501	2.79%	3.02%	3.27%	3.24%	3.18%
Prairie					492					1.04%
Southeastern	2,069	2,323	2,544	2,728	2,731	4.76%	5.10%	5.50%	5.90%	5.79%
Texas	1,226	1,353	1,502	1,534	1,535	2.82%	2.97%	3.24%	3.32%	3.25%

Official 2009 APS Membership - 47189 2008-46269 2007-46293 2006 - 45519 2005 - 43462

ATTACHMENT 2

Trends in Federal Research by Discipline, FY 1970-2007

obligations in billions of constant FY 2008 dollars



Life sciences - split into NIH support for biomedical research and all other agencies' support for life sciences.

Source: National Science Foundation, *Federal Funds for Research and Development FY 2005, 2006 , 2007*, 2008. FY 2006 and 2007 data are preliminary. Constant-dollar conversions based on OMB's GDP deflators.

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* - Other includes research not classified (includes basic research and applied research; excludes development and R&D facilities)

AAAS

APS physics

Recent Budget History Through April 15, 2009

Science Account	FY 05 ($B)	FY 06 ($B)	FY 07 ($B)	FY 08 ($B)	FY 08S ($B)	Stimulus ($B)	FY 2009 ($B)			FY 10R ($B)
							CR	Omni H	Final	
DOE SC	*3.57*	*3.47*	3.81	*3.85*	0.0625	1.60	3.85	4.77	4.77	
DOE EERE	1.16	1.16	1.46	*1.54*	0.0625	16.8	1.54	1.93	1.93	
NSF	5.48	5.59	5.84	6.07	0.0625	3.00	6.07	6.49	6.49	7.00
R&RA	4.23	4.45	4.76	4.82	0.0225	2.50	4.82	5.18	5.18	
MREFC	0.165	0.234	0.191	0.221		0.400	0.221	0.152	0.152	
EHR	0.844	0.700	0.698	0.726	0.0400	0.100	0.726	0.845	0.845	
NIST Core	*0.400*	*0.431*	0.493	*0.519*		0.600	0.519	0.819	0.819	
STRS	*0.370*	*0.383*	0.434	*0.440*		0.240	0.440	0.472	0.472	
CRF	*0.030*	*0.048*	0.059	*0.109*		0.360	0.109	0.172	0.172	
NIST ATP/TIP	0.140	0.079	0.079	0.065			0.065	0.065	0.065	0.070
NIH	27.90	28.54	29.23	29.46	0.130	8.50	29.46	30.30	30.30	
DOD 6.1	1.49	1.47	1.53	*1.47*					1.84	
DOD 6.2	4.70	5.17	5.10	*4.16*					5.08	
NASA Sci	[5.50]	[5.25]	[5.25]	4.71	0.0625	0.400	4.71	0.45	0.45	

Red italics: Earmarks removed; NASA accounts redefined in FY 2008

APS physics

Report from the Ad-Hoc Committee for Media and Public Relations
18 May 2009

Members: Jim Brasseur (chair), Jim Duncan, Phil Marcus, Mike Plesniak, Bill Schultz, Lex Smits

1. 2008 Summary

- Final report of Media and Public Relations for the 2008 Annual Meeting, from Jason Bardi (AIP): Attachment 1
- Listing of News Releases and News Reports (from the releases): Attachment 2

2. 2009: Media & Public Relations separate from the Annual Meeting

- Development of an NSF Science Panel Discussion on "The Life of Fluids: How Dynamic Flows Within the Body Impact Human Health"
- Development of a story on "The Fluid Dynamics of Infectious Disease Transmission."
- Interactions with Gene Sprouse (editor of APS journals) about the new APS journal, *Physics* (getting fluid dynamics listed as a separate category from nonlinear science)
- An interaction relevant to the Publications and Media Committee: Jim's discussions with Charles Day about getting more fluid dynamics stories into *Physics Today*
- More interactions with Gene Sprouse: Feeding fluid dynamics images to the APS
- APS March meeting: Jason Bardi developed a story on the cyber-fluids session at the 2008 March meeting; we should make better use of the March meeting to publicize fluid dynamics within the physics community
- Does anyone have direct knowledge of Media and Public Relations within other funding agencies?
- We need more creative talent and energy on the committee

3. The DFD Questionnaire to Identify Funding Trends for Research in Fluid Dynamics

- We have decided that the task we laid out for the membership -- providing detailed data of current and pasting granting activity -- is too onerous and time consuming, and we are no longer convinced that we shall receive useful response.
- We are investigating the idea of obtaining basic funding information along with abstract submittal for the annual meeting.
- Bill Schultz if investigating the concept of obtaining professional help (accompanied by a small grant) to obtain broader information; if you have interest in leading such an effort, please let Jim Brasseur or Bill Schultz know.

4. 2009 Annual Meeting, Minnesota (Jim Duncan, lead)

- Assembling a committee and developing a schedule with target dates
- Learning from last year (see report)
- New content:
  - Gallery of Fantastic Entries from the Gallery of Fluid Motion
  - stimulating local news coverage; press room at the meeting
  - local educational activities?
  - newsworthy mini-symposia idea

5. Transitioning the Committee for Media and Public Relations (CMPR) to a standing committee of the DFD

- We are developing a document with the structure, membership, charge, and responsibilities of this committee
- The CMPR will have two inter-connected charges
  1. Advancing awareness of fluid dynamics within the general public
  2. Increasing the awareness and prestige of fluid dynamics within the science communities and funding agencies.

- The work of the CMPR will be in two parts:
  1. Media and Public Relations with the DFD annual meeting
  2. Programs to enhance the awareness and prestige of fluid dynamics that are separate from the annual meeting
- Possible name change for the committee to reflect its dual charge (e.g., "Committee for Public and Science Relations (CPSR)")
- Sorting out any overlaps with the Publications and Media Committee
- Continued interaction (with financial commitment) from Member Society Media Services of the American Institute of Physics (AIP)

ATTACHMENTS 1 and 2 FOLLOW

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MEMO

TO: APS Division of Fluid Dynamics Executive Council
FROM: Jason Socrates Bardi, American Institute of Physics (AIP)
DATE: May 15, 2009

SUBJECT: Final summary of media relations work for the 61st APS Division of Fluid Dynamics Meeting in San Antonio, November 23-25, 2008.

Summary

The American Physical Society (APS) Division of Fluid Dynamics hired AIP's Media and Government Relations division to help publicize the research presented at the 61st APS Division of Fluid Dynamics (DFD) Meeting in San Antonio, November 23-25, 2008. AIP gave an initial report of work performed to the DFD Executive Council on November 22, 2008. This memo constitutes the final report on these efforts.

1) How Scientific Highlights were Selected

AIP's Media and Government Relations division received more than 100 abstracts, constituting the top ten percent of those deemed newsworthy by session chairs and other DFD members. From these AIP together with DFD members selected a subset of about 30 to feature in news releases and Lay Language papers. In addition to that, AIP and DFD worked together to select about two dozen videos and images from among the entries to the galler

ANALYSIS: Having DFD members make the first cut seemed to work well and I recommend following the same procedure for future meetings.

2) Virtual Press Room

In collaboration with DFD and full-time APS staff, we created a Virtual Press Room, which we launched the week before the meeting http://www.aps.org/units/dfd/pressroom/. This was the central resource for the press to obtain information, including press releases, lay-language papers, images, and videos.

ANALYSIS: This was beautifully done by the Web folks at APS headquarters, and AIP working with DFD to supply the content seemed to work well. I recommend the same. We might consider the timing carefully, perhaps launching the Virtual Press Room ealier.

3) Gallery of Fluid Motion Images and Videos

Gallery of Fluid Motion images were solicited via an email sent to all the entrants after the video submission date (September 26), inviting them to submit images and brief descriptions that might be used for the virtual pressroom. Of those submitted, AIP and DFD selected 16 for use in the virtual pressroom. After the video submission date (October 10th), AIP and DFD selected 16 for use in the virtual pressroom.

ANALYSIS: This worked well and was an appropriate level of content. We might improve things by doing a dedicated press release about Gallery Images and Videos.

4) Lay-Language Papers

Lay-language papers are roughly 500 word summaries written for a general audience by the authors of individual presentations with accompanying graphics and multimedia files. They serve as starting points for journalists who are interested in covering the meeting but cannot attend in person. AIP invited about 12 authors to submit such papers, and eight were submitted. APS headquarters staff designed a nice page for them: http://www.aps.org/units/dfd/pressroom/papers/index.cfm.

ANALYSIS: The papers were interesting and nicely appointed but there was no media coverage of them that I could find. This may be because they were lost in the mix. We did not send out a dedicated release announcing the lay language papers but rather one release announcing them as well and all the items on the Virtual Press Room together.

Since these papers are written by the scientists themselves, making them part of the Virtual Press Room is not that time consuming. However it is hardly worth the scientists' bother if nobody views them. I suggest we invite a similar number of these papers this coming year and send out an announcement just dedicated to them. After that, we should reevaluate if we still don't get any coverage.

5) Press Releases

A total of six releases were written and sent out. AIP selected the final topics with input from DFD and then pursued the stories. Authors of abstracts about which the releases were written had the opportunity to fact-check the releases as did Jim Brasseur and Jim Duncan of DFD. The releases, their dates of release, and their URLs are:

- **#1 - October 24th** Save the Date. Announcing the meeting and give a brief description of the invited talks. http://www.aps.org/units/dfd/pressroom/news/102408.cfm.
- **#2 - November 6th** Eight topics. JUPITER'S SHRINKING RED SPOT, OIL SPILLS, SPREADING GERMS, FLEXIBLE FLYING MACHINES, AND THE MYSTERIES OF SAND RIPPLES ON MARS. http://www.aps.org/units/dfd/pressroom/news/110608.cfm.
- **#3 - November 13th** Seven biologically-related topics. ROBOTIC HUMMINGBIRDS, BURROWING CLAMS, EMBRYONIC HEARTS, THE SECRETS OF THE BAT'S FLAP, AND A DOLPHIN SWIMMING MYSTERY SOLVED. http://www.aps.org/units/dfd/pressroom/news/111308.cfm.
- **#4 - November 19th** The Physics of Golf Balls. Single topic press release on DFD regular talk. http://www.aps.org/units/dfd/pressroom/news/112308.cfm.
- **#5 - November 19th** Short email (not posted) announcing the virtual pressroom, press releases, lay papers and Gallery of Fluid Motion images and videos.
- **#6 - November 20th** Blast Helmet Flow. Single topic press release on DFD regular talk. http://www.aps.org/units/dfd/pressroom/news/112508.cfm.

6) Dissemination and Outreach

In addition to sending these releases to AIP's own list of local, national, and international journalists, we did outreach to local reporters to alert them to the news of the conference. We also disseminated the releases via Eurekalert and Newswise. Furthermore, we partnered with NSF to gain additional exposure

for our releases and the images in the Virtual Press Room.

ANALYSIS: This is all more or less standard, and I recommend doing the same next year.

7) Queries

By the time of the meeting, I had already gotten requests from the following:
- Nicholas Bakalar (New York Times) inquired about golf ball story
- Bedel Sager (NYTimes graphics editor) inquired about golf ball story
- John Matson (Reporter, Scientific American) inquired about golf ball video
- Sid Perkins (Reporter, Science News) inquired about golf ball video
- Rick Thomas (Publisher, Iowa Golf Magazine) inquired about golf ball graphic
- Mike Hennessy (Editor, GOLF RESORT NEWS) inquired about golf ball story
- David Shiga (Physical sciences reporter, New Scientist) inquired about golf ball story
- Tom Avril (Philadelphia Inquirer) inquired about golf ball story
- Ben Schaub (Producer, Daily Planet, Discovery Channel Canada) golf ball.
- Brittany Sauser (Senior Web Producer, Technology Review Magazine) inquired about the Helmet Blast Story

ANALYSIS: Overall, we did very well. Meeting topics were covered by a variety of national and international outlets, and we even got a story into the local San Antonio paper. The releases were also picked up and carried on a number of aggregator-type web sites.

8) On-Site Meeting PR

Jason Bardi from AIP attended the meeting for on-site media services and pitching. He also reported in to the Executive Council and looked for stories for AIP's Inside Science News Service and Discoveries and Breakthoughs Inside Science.

ANALYSIS: This was the first year of doing the media services, so attending in person was important for both DFD and AIP in San Antonio. However, attendance is something that should be considered every year based on whether we expect local or national reporters to attend the meeting. If reporters do come, it is essential to have someone on site who is dedicated to helping them with whatever they need.

9) Coverage

Attachment #1 contains a list of outlets along with URLs showing which stories were picked up by which outlets. This list is not exhaustive. In many cases (such as with the New York Times story) there were multiple places that all ran the same item. I did not list them all. The list may also exclude outlets that covered the research as part of a larger story, Web sites that no longer hosted the story when we conducted our search, and media outlets that wrote stories without using the key words for which we were searching. Nevertheless, it contains a good representative sampling of the meeting covereage.

ANALYSIS: A few things might be optimized here. Releases #4 and #6 were the most successful, and the reason for this may be that single topic news releases are more easily digestible by reporters. In addition, the services Eurekalert and Newswise distribute single topic releases differently than they do multiple-topic releases (#2 and #3), making the former more likely to be viewed by reporters. Therefore, I suggest we tweak this a little next year... perhaps putting out one fewer multiple topic release and

more single topic ones (as warranted by the material of course). This should be reevaluated every year.

10) Future Meeting Coverage

The San Antonio meeting did very well, and we hope to be as successful for future meetings. One area where we would like to increase coverage is in the local press, and as always we will reach out to local reporters. One way to improve out chances with local reporters is to identify talks that have a strong local angle to them. Interesting topics that are being presented by local researchers is great, for instance. Interesting topics *about* the city where the conference is being held are even better.

ANALYSIS: if we do expect local reporters to come to the meeting, it is worth our while to set up a press room and have a media relations person on site. It may also be worthwhile to have press conferences if we know for sure that there are reporters coming or if there are big stories breaking at the meeting that we would expect reporters to be interested in.

11) Discoveries and Breakthroughs Inside Science (DBIS)

AIP parsed the meeting PR material and look for topics suitable for our TV news service Discoveries and Breakthroughs Inside Science (DBIS)

DBIS is a peer-reviewed syndicated science news service. Each month, DBIS distributes 12, 90-second news segments a month (or 144 per year) to local television stations across the USA. DBIS is currently reaching over 47 million people through television and over 200 million people through our international distribution from the Middle East Broadcasting Network. DBIS segments cover a wide variety of STEM (science, technology, engineering, and math) topics. DBIS has a website component to provide more information about each segment and a Spanish language version the segment is produced whenever possible. DBIS has been experimentally proven to show a statistically significant increase in awareness and appreciation of STEM in viewing audiences. DBIS is produced by The American Institute of Physics (AIP) with help from its member scientific societies, other contributing scientific societies, and Ivanhoe Broadcast News (IBN). For more information, go to (http://discoveriesandbreakthroughs.org).

This resulted in one DBIS, which was produced on May 1, 2009
"Improving Your Golf Game"
Computational scientists are studying the dimple design on golf balls to optimize flight. The dimples help to reduce the forces that slow the ball, easing the flow of air around it. To study this flow, researchers used supercomputers to process complex mathematical equations. Results showed them that by changing the dimple pattern and depth, drag is further minimized and the ball travels farther.
FULL STORY AND VIDEO AT: http://www.aip.org/dbis/stories/2009/19051.html

ANALYSIS: This is a win-win for AIP and DFD, and I suggest we continue to use the collaboration to feed DFD stories to DBIS.

12) Inside Science News Service (ISNS)

AIP parsed the meeting PR material and look for topics suitable for our newspaper news service called Inside Science News Service (ISNS). This resulted in two ISNS stories, one of which was written up (on Jupiter's red spot): http://www.aip.org/isns/reports/2009/020409jupiter.html.

ANALYSIS: This is another win-win for AIP and DFD, and I suggest we continue to use the collaboration to feed ISNS stories to AIP. Moreover, we feels that we can increase the coverage and profile of the meeting dramatically by doing a larger number of these ISNS stories for future meetings, and I suggest we aim at doing at least 3-4 for the next meeting.

13) Gallery of Fantastic Fluids

One idea suggested after the meeting in San Antonio was to have a "Best of the Best" gallery drawn from the Gallery of Fluid Motion for the past 20 years. This would be situated somewhere like the hotel lobby and, depending on location, it may be open to the public. If warranted, an invitation may go out to the press.

ANALYSIS: This is a good idea, but it would call for a person specifically to organize (last year discussed with John Bush from MIT). There would also have to be some consideration paid to physically producing, storing, and transporting the collection.

With regard to reporters, I would not see such a gallery as a destination draw for local reporters so much as an offering that could contribute to their overall experience and help them find stories if they decide to attend.

14) Educational Activities

Some aspects of this were discussed by AIP and DFD after the San Antonio meeting. Some possible ideas included inviting science teachers in the area to come, provide local science teachers with material to present in their classes before our meeting, and connecting students with the Gallery of Fantastic Entries.

ANALYSIS: This is a potential draw for reporters if there is a chance to shoot video of kids having an enriching and amazing experience. Whether the educational activities merit press outreach is a question that should be asked every year. Depending on the nature of the activities, a press release may indeed be warranted.

15) Final Comment

As I said last year, I look forward to working with your organization to bring out the interesting results of this field.

Best,

Jason Socrates Bardi.

ATTACHMENT 2: LISTING OF NEWS RELEASES AND NEWS REPORTS

Title in Release or News Report	Outlet	Author	Date	URL
THE PHYSICS OF HUMAN TEARS				
The Physics of Tear Drops	LiveScience	Clara Moskowitz	11/20/2008	http://www.livescience.com/health/081120-teardrop-physics.html
How Tears Work -- Understanding the phenomenon could lead to better eye treatments	Softpedia	Dan Talpalariu	11/21/2008	http://news.softpedia.com/news/How-Tears-Work-98391.shtml
The Physics of Tear Drops	U.S. News	Clara Moskowitz	11/20/2008	http://www.usnews.com/articles/science/medical-science/2008/11/20/the-physics-of-teardrops.html
JUPITER'S RED SPOT				
Jupiter's stormy Great Red Spot is shrinking	CNN	A. Pawlowski	4/4/2009	http://www.cnn.com/2009/TECH/space/04/02/jupiter.red.spot.shrinking/
Jupiter's stormy Great Red Spot is shrinking	SPACE.com	Robert Roy Britt	3/9/2009	http://www.space.com/scienceastronomy/090309-mm-jupiter-great-red-spot.html
Mapping Jupiter's Red Spot	AIP/ISNS	Phil Schewe	2/4/2009	http://www.aip.org/isns/reports/2009/020409jupiter.htm
Is Jupiter's Red Spot on its way out?	COSMOS magazine	Isheeta Sumra	3/20/2009	http://www.cosmosmagazine.com/news/2633/is-jupiters-red-spot-its-way-out
Jupiter's stormy Great Red Spot is shrinking	MSNBC.com	Robert Roy Britt	3/9/2009	http://www.msnbc.msn.com/id/29604064/
BURROWING CLAMS				
'RoboClam' Anchor Holds Ships Steady	Discovery Channel	Eric Bland	12/2/2008	http://dsc.discovery.com/news/2008/12/02/roboclam-anchor.html
Can you dig it? Robotic clam burrows into ocean floor	Computer World	Sharon Gaudin	12/2/2008	http://www.computerworld.com/action/article.do?command=viewArticleBasic&articleId=9122128
FLAPPING BAT WINGS				
As the Bat Flies	Today at Brown		11/18/2008	http://today.brown.edu/articles/2008/11/bat-flight
FLEXIBLE FLYING MACHINES				
As the Bat Flies	Today at Brown		11/18/2008	http://today.brown.edu/articles/2008/11/bat-flight
DFD Press Pelease	PhysOrg.com		11/18/2008	http://www.physorg.com/news146335017.html
OIL SPILL CLEANUP				
DFD Press Pelease	PhysOrg.com		11/18/2008	http://www.physorg.com/news146328857.html

DOLPHIN SWIMMING MYSTERY SOLVED

Gray's Paradox Resolved - Dolphins Can Swim That Fast After All And Here's Why	scientificblogging.com	News Staff	11/24/2008	http://www.scientificblogging.com/news_releases/grays_paradox_resolved_dolphins_can_swim_fast_after_all_and_heres_why
'Gray's Paradox' Solved: Researchers Discover Secret Of Speedy Dolphins	Science Daily	News Staff	11/25/2008	http://www.sciencedaily.com/releases/2008/11/081124131334.htm

THE PHYSICS OF GOLF BALLS

The Math and Physics of Golf Balls	suite101.com	Isaac M. McPhee	11/24/2008	http://mathchaostheory.suite101.com/article.cfm/the_math_and_physics_of_golf_balls
Fore! Here Comes the Ultimate Golf Ball	Live Science	Dan Peterson	11/23/2008	http://www.livescience.com/technology/081123-golf-ball-dimples.html
Supercomputers help design better golf balls	primidi.com	Roland Piquepaille	12/1/2008	http://74.125.95.132/search?q=cache:Mbd8iOFIKvgJ:www.primidi.com/2008/12/01.html+The+Physics+of+Golf+Balls+Nikolaos+Beratlis&cd=14&hl=en&ct=clnk&gl=us&client=firefox-a
Golf report: Search for the perfect dimple	InTech (ISA)		12/4/2008	http://www.isa.org/InTechTemplate.cfm?Section=NewHome&template=/ContentManagement/ContentDisplay.cfm&ContentID=72940
Keeping Score: Scientists Take Swing at Golf Ball's Dimples	NY times	Nicholas Bakalar	11/29/2008	http://www.nytimes.com/2008/11/30/sports/golf/30score.html?ref=sports
Maryland Engineers' Work Could Let Golf Balls Fly Farther	University of Maryland Newsdesk	Lee Tune	12/3/2008	https://newsdesk.umd.edu/scitech/print.cfm?articleID=1800
Golf ball study aims for greater efficiency	Arizona State University	James King	12/3/2008	http://www.statepress.com/node/3273
The high-tech golf ball that lets an amateur drive it as far as Tiger Woods	Daily Mail (UK)		11/24/2008	http://www.dailymail.co.uk/sciencetech/article-1088859/The-high-tech-golf-ball-lets-amateur-drive-far-Tiger-Woods.html
Supercomputers take a swing at golf ball's mystery	Houston Chronicle		11/28/2008	no longer hosted
Testing every wrinkle of a golf ball's dimples	International Herald Tribune, France	Nicholas Bakalar	12/3/2008	http://www.nytimes.com/2008/12/03/sports/03iht-BALL.1.18356508.html?_r=1
SRI supercomputer unravels mysteries of golf ball flight	Euro Rubber Journal, UK		11/28/2008	requires subscription
Why the dimples smile on golfers	Philadelphia Inquirer, PA	Tom Avril	11/24/2008	http://www.philly.com/inquirer/health_science/weekly/20081124_Why_the_dimples_smile_on_golfers.html

Dimples aren't just beauty marks on golf balls	San Antonio Express, TX	Cindy Tumiel	11/28/2008	http://www.mysanantonio.com/sports/golf/35204189.html
Scientists have a ball with dimples	Toronto Star, Canada	Trish Crawford	11/25/2008	http://www.thestar.com/living/article/542760
Now, extreme computing for golf balls	Times of India	Jonathan Leake	11/23/2008	http://timesofindia.indiatimes.com/HealthSci/Now_extreme_computing_for_golf_balls/articleshow/3748859.cms
Teed up: the long-haul golf ball	Times Online, UK	Jonathan Leake	11/23/2008	http://www.timesonline.co.uk/tol/sport/golf/article5213474.ece
Ultra-long golf ball 'could give every golfer the drive of Tiger ...	Telegraph, UK	Aislinn Simpson	11/23/2008	http://www.telegraph.co.uk/sport/golf/3506300/Ultra-long-golf-ball-could-give-every-golfer-the-drive-of-Tiger-Woods.html
Super Long Golf Ball Development Revealed | 300 yard drives for all!	Today's Golfer, UK		11/25/2008	http://www.todaysgolfer.co.uk/Golf/News/searchresults/November-08/new-long-golf-ball-invented/
New Research to Give Avid Golfers a Leading Edge	AZOM		11/24/2008	http://www.azom.com/news.asp?newsID=14689
DFD Press Pelease	Huliq.com		~11/25/2008	http://www.huliq.com/11/73365/physics-golf-balls
DFD Press Pelease	PhysOrg.com		~11/25/2008	http://www.physorg.com/news146722976.html
DFD Press Pelease	7th Space Interactive		~11/25/2008	http://7thspace.com/headlines/298564/new_research_aims_to_help_golfers_by_producing_better_balls_that_fly_farther.html
DFD Press Pelease	Science Centric, Bulgaria		~11/25/2008	http://www.sciencecentric.com/news/article.php?q=08112436-the-physics-golf-balls
DFD Press Pelease	EuroGraduate		~11/25/2008	http://www.eurograduate.com/arch_article.asp?id=2316
DFD Press Pelease	First Science		~11/25/2008	http://www.firstscience.com/home/news/breaking-news-all-topics/the-physics-of-golf-balls_56544.html
DFD Press Pelease	Genetic Engineering News		~11/25/2008	no longer hosted
DFD Press Pelease	Red Orbit		~11/25/2008	http://www.redorbit.com/news/sports/1602486/understanding_the_physics_of_the_golf_ball/
DFD Press Pelease	Matter News		~11/25/2008	http://www.matternews.com/research/The_physics_of_golf_balls.asp
DFD Press Pelease	Thai News, Thailand		~11/25/2008	http://www.thaindian.com/newsportal/entertainment/optimising-golf-balls-size-and-dimples-can-help-them-fly-farther_100122743.html

DFD Press Pelease	Science Daily		~11/25/2008	http://www.isa.org/InTechTemplate.cfm?Section=NewHome&template=/ContentManagement/ContentDisplay.cfm&ContentID=72940
DFD Press Pelease	E Science News		~11/25/2008	http://esciencenews.com/articles/2008/11/23/the.physics.golf.balls
THE PHYSICS OF EXPLOSIVES AND BLAST HELMETS				
Modeling Brain Blasts	Technology Review	Brittany Sauser	11/25/2008	http://www.technologyreview.com/computing/21712/?a=f
DFD Press Pelease	7th Space Interactive		~11/25/2008	http://7thspace.com/headlines/298530/new_research_aims_to_better_protect_against_improvised_explosive_devices.html
DFD Press Pelease	PhysOrg.com		~11/25/2008	http://www.physorg.com/news146831132.html
DFD Press Pelease	E Science News		~11/25/2008	http://esciencenews.com/articles/2008/11/25/the.physics.explosives.and.blast.helmets
DFD Press Pelease	Huliq.com		~11/25/2008	http://www.huliq.com/11/73507/physics-explosives-and-blast-helmets
DFD Press Pelease	Lab Spaces		~11/25/2008	http://www.labspaces.net/93546/The_physics_of_explosives_and_blast_helmets
DFD Press Pelease	Red Orbit		~11/25/2008	http://www.redorbit.com/news/technology/1602678/new_research_looks_into_the_physics_of_explosives_blast_helmets/
DFD Press Pelease	Wot News		~11/25/2008	http://wotnews.com.au/like/the_physics_of_explosives_and_blast_helmets/2754622/
DFD Press Pelease	Science Daily		~11/25/2008	http://www.sciencedaily.com/releases/2008/11/081125113100.htm
DFD Press Pelease	Science Centric, Bulgaria		~11/25/2008	http://www.sciencecentric.com/news/article.php?q=08112536-new-research-aims-better-protect-against-improvised-explosive-devices
DFD Press Pelease	Medical News Today		~11/25/2008	http://www.medicalnewstoday.com/articles/130889.php
DFD Press Pelease	R&D Magazine		~11/25/2008	http://www.rdmag.com/ShowPR.aspx?PUBCODE=014&ACCT=1400000101&ISSUE=0811&RELTYPE=SOFT&PRODCODE=00000000&PRODLETT=OR&CommonCount=0