



# AMERICAN NUCLEAR SOCIETY—Student Chapter

Radiation Center, Oregon State University  
Corvallis, Oregon 97331  
(503) 754-2341

January 5, 1989

Dr. Mamoru Ishii  
Chairman, Thermal Hydraulics Division  
American Nuclear Society

Dear Dr. Ishii:

The Oregon State University Student Chapter of the American Nuclear Society is proud to announce the 1989 American Nuclear Society Western Regional Student Paper Conference. This conference will be a student paper conference covering all issues associated with the nuclear industries. The conference will be held on the campus of Oregon State University in Corvallis, Oregon, on April 6, 7, and 8.

Preparations for the conference have been well under way for some time now, and we here at Oregon State University have high expectations for a very successful conference. Commitments have been made by several industry leaders to serve as guest speakers and as paper session adjudicators. Participation has been encouraged not only from students in the technical fields, but also from students who may be interested in the social, economic, and political aspects of nuclear technology.

As has been the policy for past student conferences, we hope to provide substantial reimbursement of travel costs for student participants. This reimbursement significantly reduces the financial burden on student registrants and helps encourage widespread conference participation. In anticipation of a large number of registrants, we have had to assume a large financial responsibility. We need to raise several thousand dollars in unobligated funds to meet this responsibility. To this end we are hoping that groups such as yours might be able to make a contribution of \$500 or more; however, any contribution would be greatly appreciated. With your help, we are confident that this conference will be a big success.

If you would like to discuss any details associated with the conference, please feel free to contact our faculty advisor, Dr. Jack F. Higginbotham, or our chapter President, Mr. Keith A. Pauley, at 754-2341; or myself at (503) 378-0352. Thank you for your time and consideration of this matter.

Sincerely,  
*Daniel Jordheim*  
Daniel P. Jordheim  
Conference Chairman

# AMERICAN NUCLEAR SOCIETY—Student Chapter

Radiation Center, Oregon State University  
Corvallis, Oregon 97331  
(503) 754-2341



## REQUEST FOR MONETARY SUPPORT 1989 WESTERN REGIONAL STUDENT PAPER CONFERENCE

Submitted by  
Oregon State University Student Chapter  
American Nuclear Society

### I. Conference Schedule

The dates for the conference are shown on the conference poster, which is included in this packet. A copy of the conference schedule is also included in this packet. The schedule consists of paper presentation sessions, tours, banquets, and addresses by featured speakers. There is ample free time in the schedule for students, faculty members, and industry representatives to mingle together and to meet personally.

### II. Conference Poster

The conference poster highlights the highly respected industry professionals who will be attending the conference to serve as guest speakers. We have also received commitments from several equally highly respected industry professionals to serve as Paper Session Adjudicators. The conference theme displayed on the poster is of a general nature in order to encourage participation of students from a variety of nuclear-related fields. Copies of the poster have been sent to 275 academic departments at institutions in the Western Region.

### III. Facilities

Oregon State University has ample facilities for conducting the paper presentation sessions, housing students attending the conference, and hosting conference banquets. The paper presentation sessions will be held at the Memorial Union, where there are several conference and meeting rooms available. Commissioner Rogers will be speaking in Milam Auditorium, which has a capacity of 750 people and is equipped with audiovisual capabilities. The conference banquets will be held at the Memorial Union and at Nendels Inn in Corvallis. Student attendees will be housed in an OSU residence hall specifically reserved for conferences and other campus events. Speakers and other distinguished guests will be housed at Nendels Inn.

#### IV. Transportation

Corvallis and the Oregon State University campus are very accessible by car and by Greyhound Bus Lines. There are commercial airports not far off, near Eugene (35 miles), and near Portland (100 miles). We will provide ground transportation to and from these airports via cars and vans from the campus car pool. Vehicles from the same car pool will be used for local transportation during the course of the conference and for transportation to and from the Trojan Plant for the tour.

#### V. Budget

Included in this packet you will find a budget for the conference. The numbers shown on the budget represent our best available estimates at this time. You will notice that we do need substantial industry/professional sponsorship to balance the budget for our conference.

#### VI. Personnel

The OSU Student ANS Branch has 20-30 active members who are experienced and capable of carrying out duties associated with the conference. Our student branch also has the assurance of the full and complete support of the faculty and staff at the OSU Radiation Center.

We have attempted to involve as many students as possible in the preparations for the conference. Duties have been assigned to the following people:

Call for Papers	Craig Holmes
Conference Schedule	Daniel Jordheim
Transportation	Jeffrey Starr
Housing	Wanda Cox
Registration	Thomas Eichenberg
Entertainment	Mike Reardon
Awards Banquet	Keith Pauley
Paper Session Videotaping	Kira Richardson
Awards	Craig Holmes

04-20-89 13:47

VII. Publicity for Conference Sponsors

Conference sponsors will be featured on the sponsor board, which will be displayed at all conference events. Sponsors will also be recognized and listed in the final version of the Official Conference Proceedings, copies of which are sent to all registered attendees and to the national headquarters of the American Nuclear Society.

VIII. Checks

Checks should be made payable to OSU Student ANS Chapter and sent to:

Paper Conference Chair  
ANS Student Chapter  
Oregon State University  
Radiation Center A100  
Corvallis, OR 97331-5903



March 13, 1989

B. S. Shiralkar, Treasurer  
Thermal Hydraulics Division/ANS  
Engineering Company



## AMERICAN NUCLEAR SOCIETY

555 North Kensington Avenue, La Grange Park, Illinois 60525 USA  
Telephone: (312) 352-6611 • Telecopier: (312) 352-0499 • Telex: 4972673

March 1, 1989

To: Chairs, Vice Chairs and Treasurers of Professional Divisions  
Subject: Division Financial Reports, January 1 to December 31,  
1988

Attached is your division financial report as of December 31, 1988.  
If you have any questions concerning this report, please contact  
me.

Sincerely,

Christian Krapp

cc: R. Clemmons  
G. Easley

28-Feb-89

PAGE 1

AMERICAN NUCLEAR SOCIETY  
DIVISION FINANCIAL REPORT  
12/31/88

THERMAL HYDRAULICS

	BUDGET 12 MONTHS 1988	ACTUAL 12 MONTHS 1988	PAGE 2 REFERENCE
BUDGET FUNDS			
1988 MEMBER ALLOCATION	1100	1083	
CARRY FORWARD FROM 1987	6052	0	
OTHER BUDGET FUNDS	150	8297	1
TOTAL BUDGET FUNDS	<u>7302</u>	<u>9380</u>	
BUDGET EXPENSES			
NEWSLETTERS	0	0	2
AWARDS, PLAQUES	800	904	3
NATIONAL MEETING COSTS	0	0	4
DIVISION OFFICER EXPENSE	0	0	5
STUDENT SUPPORT	500	300	6
SCHOLARSHIP/NEED FUNDING	500	0	7
OTHER EXPENSES	100	200	8
TOTAL EXPENSES	<u>1900</u>	<u>1404</u>	
EXCESS, -DEFICIENCY OF BUDGET FUNDS OVER EXPENSES	<u>5402</u>	<u>7976</u>	

28-Feb-89

PAGE 2 AMERICAN NUCLEAR SOCIETY  
DIVISION FINANCIAL REPORT  
12/31/88

THERMAL HYDRAULICS

1. OTHER BUDGET FUNDS 8297 \$8275 Top Mtg Carryforward  
22 Ther Hyd Div Lunch Wash DC 11/88

2. NEWSLETTERS

0

3. AWARDS, PLAQUES  
Victor Iannello 500 Dr. S. Banerjee Achievement Awd  
Dr. N. Todreas 50 Best Paper Awd  
Scotties Scroll Studio 50 Best Paper Awd  
Scotties Scroll Studio 229 Purchase of Tech Achievement Awd  
75 Purch Achiev Awd, S Banerjee

904

4. NATIONAL MEETING COSTS

0

5. DIVISION OFFICER EXPENSE

0

6. STUDENT SUPPORT  
Student Travel Support 100  
Student Travel Support 100 San Diego Mtg 6/88  
Univ of Mississippi 100 G McGhee & J Gay

300

7. SCHOLARSHIP/NEED FUNDING

0

8. OTHER EXPENSES  
Student Conference Funding 200

200





**GE Nuclear Energy**

General Electric Company  
175 Curtner Ave.  
San Jose, CA 95125

March 20, 1989

Ms. Kathy Picka  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, Illinois 60525

Dear Ms. Picka:

a 1500, from the

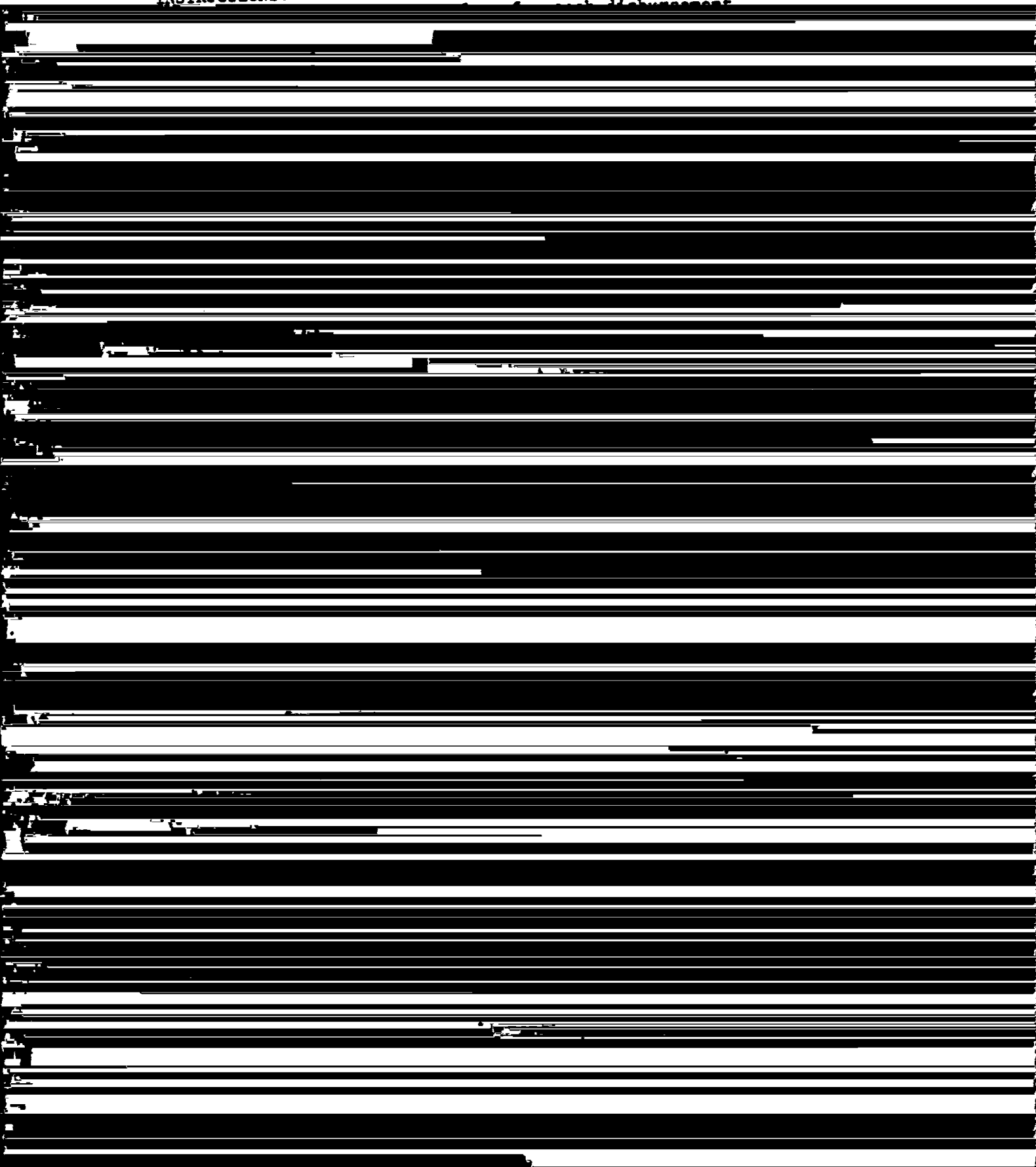


AMERICAN NUCLEAR SOCIETY  
REQUEST FOR DISBURSEMENT OF DIVISION FUNDS

THERMAL HYDRAULICS

DIVISION/GROUP

INSTRUCTIONS:



AMERICAN NUCLEAR SOCIETY  
REQUEST FOR DISBURSEMENT OF DIVISION FUNDS

THERMAL HYDRAULICS DIVISION/GROUP

INSTRUCTIONS:

1. Complete a separate form for each disbursement
2. Send forms to headquarters, Information & Liaison Services Department
3. State any special mailing instructions
4. Attach receipts or other documentation

REQUEST DATE: 3/20/89

PAY TO:

NAME

O S U STUDENT ANS CHAPTER

ADDRESS

OREGON STATE UNIVERSITY

CITY

CORVALLIS

STATE

OR

ZIP CODE

97331-5703

TELEPHONE

AMOUNT:

\$ 100-

REASON FOR DISBURSEMENT:

STUDENT PAPER CONFERENCE TRAVEL

APPROVED BY:

NAME

B. S. SHIRALKAR, TREASURER

DIVISION POSITION

DIVISION

NAME

DIVISION POSITION

FOR ACCOUNTING DEPARTMENT VERIFICATION:

     BUDGET

     NON-BUDGET

DATE FUNDS PAID           

Check Number



## AMERICAN NUCLEAR SOCIETY

555 North Kensington Avenue, La Grange Park, Illinois 60525 USA

Telephone: (312) 352-6611 • Telecopier: (312) 352-0499 • Telex: 4972673

May 23, 1989

To: Chairs, Vice Chairs and Treasurers of Professional Divisions

Subject: Division Financial Reports January 1 to April 30, 1989

7:44 PM 5/23/89

23-May-89

PAGE 1

AMERICAN NUCLEAR SOCIETY  
DIVISION FINANCIAL REPORT  
4/30/89

-----  
THERMAL HYDRAULICS

	BUDGET 4 MONTHS 1989	ACTUAL 4 MONTHS 1989	PAGE 2 REFERENCE
BUDGET FUNDS			
1989 MEMBER ALLOCATION	1083	1084	
CARRY FORWARD FROM 1988	0	0	
OTHER BUDGET FUNDS	7608	7976	1
TOTAL BUDGET FUNDS	8691	9060	
BUDGET EXPENSES			
NEWSLETTERS	0	0	2
AWARDS, PLAQUES	800	0	3
NATIONAL MEETING COSTS	0	0	4
DIVISION OFFICER EXPENSE	0	0	5
STUDENT SUPPORT	500	100	6
SCHOLARSHIP/NEED FUNDING	500	500	7
OTHER EXPENSES	100	0	8
TOTAL EXPENSES	1900	600	
EXCESS, -DEFICIENCY OF BUDGET FUNDS OVER EXPENSES	6791	8460	

23-May-89

PAGE 2 AMERICAN NUCLEAR SOCIETY  
DIVISION FINANCIAL REPORT  
04/30/89

THERMAL HYDRAULICS

-----  
1. OTHER BUDGET FUNDS 7976 Topical Meeting Funds Carryforward  
=====

2. NEWSLETTERS

-----  
0  
=====

3. AWARDS, PLAQUES

-----  
0  
=====

4. NATIONAL MEETING COSTS

-----  
0  
=====

5. DIVISION OFFICER EXPENSE

-----  
0  
=====

6. STUDENT SUPPORT

Student Travel Assistance 100

-----  
100  
=====

7. SCHOLARSHIP/NEED FUNDING

Cont to Lamarsh Fund 500

-----  
500  
=====

8. OTHER EXPENSES

-----  
0  
=====

AMERICAN NUCLEAR SOCIETY  
 FORECAST 1989 BUDGET 1990 ESTIMATES

THERMAL HYDRAULICS	ACTUAL	ACTUAL	APPROVED	PROPOSED	
	1987	1988	BUDGET	FORECAST	BUDGET
			1989	1989	1990
<b>BUDGET FUNDS</b>					
CURRENT YEAR MBR ALLOC	1087	1083	1083	<u>1084</u>	<u>1084</u>
CARRY FWD, PRIOR YEAR	277				
OTHER BUDGET FUNDS	8638	8297	7608	<u>8026</u>	<u>6660</u>
<b>TOTAL BUDGET FUNDS</b>	<u>10002</u>	<u>9380</u>	<u>8691</u>	<u>9110</u>	<u>7744</u>
<b>BUDGET EXPENSES</b>					
<b>NEWSLETTERS</b>					
AWARDS, PLAQUES	792	904	800	<u>900</u>	<u>900</u>
NATIONAL MEETING COSTS	35				
<b>DIVISION OFFICER EXPENSE</b>					
STUDENT SUPPORT	400	300	500	<u>500</u>	<u>500</u>
SCHOLARSHIP/NEED FUNDING	500		500	<u>1000</u>	<u>500</u>
OTHER EXPENSES		200	100	<u>100</u>	<u>100</u>
<b>TOTAL EXPENSES</b>	<u>1727</u>	<u>1404</u>	<u>1900</u>	<u>2500</u>	<u>2000</u>
<b>EXCESS, -DEFICIENCY OF BUDGET FUNDS OVER EXPENSE</b>	<u>8275</u>	<u>7976</u>	<u>6791</u>	<u>6610</u>	<u>5744</u>

CAN NUCLEAR SOCIETY  
1989/PROPOSED 1990 BUDGETS

ACTUAL 1988	APPROVED BUDGET 1989	FORECAST 1989	PROPOSED BUDGET 1990
1083	1083	1084	1084
0	0	0	0
8297	7608	8026	6660
	8275	7976	6610
	0	0	0
	22	50	50
9380	8691	9110	7744
904	800	900	900
500	500	500	500
200	200	200	200
300	300	300	300
0	500	1000	500
	100	100	100
1404	1900	2500	2000
7976	6791	6610	5744



ANS Thermal Hydraulics Division

Treasurer's Report - June 1989

The Thermal Hydraulics Division ended 1988 with a balance of \$7,976 which will be carried over into 1989.

We had an income of \$1,083 from Member Allocation (\$1/Division Member). We also carried forward the balance of the Topical Meeting income from previous years (\$8,297). The Division Luncheon income showed a significant drop from \$75 to \$22. The total income for the year adds up to \$9,380.

The expenses for the year were \$904 for the Division Awards and Plaques (up from \$792 in 1987) and \$500 for student support (travel to national meetings and student conferences). At the last October meeting, it was decided that the ANS scholarships available for funding should be reviewed. Subsequently, in March we chose to continue supporting the LaMarsh Fund. The \$500 contribution was authorized in March and will show up as an expense in 1989, not in 1988. Because of this the 1988 expenses add up to \$1,404, about \$500 less than planned.

For 1989, the projected Member Allocation income is \$1,084 and the projected expenditures are \$2,500, so that the Division should end the year with a balance of \$6,610.



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B. S. Shiralkar, Treasurer  
Thermal Hydraulics Division

AMERICAN NUCLEAR SOCIETY  
FORECAST 1989/PROPOSED 1990 BUDGETS

L HYDRAULICS	ACTUAL 1987	ACTUAL 1988	APPROVED BUDGET 1989	FORECAST 1989	PROPOSED BUDGET 1990
FUNDS					
ENT YEAR MBR ALLOCATION	1087	1083	1083	1084	1084
Y FWD, PRIOR YEAR	277	0	0	0	0
R BUDGET FUNDS	8638	8297	7608	8026	6660
RIOR YR TOP MTG INCOME	8563	8275	7533	7976	6610
URRENT YR TOP MTG INCOME	0	0	0	0	0
IVISION LUNCHEON INCOME	75	22	75	50	50
BUDGET FUNDS	10002	9380	8691	9110	7744
EXPENSES					
LETTERS	792	904	800	900	900
DS, PLAQUES	35				
ONAL MEETING COSTS					
SION OFFICER EXPENSE	400	500	500	500	500
ENT SUPPORT					
RAVEL, NATL MTGS	200	200	200	200	200
TUDENT CONFERENCES	200	300	300	300	300
LARSHIPS/NEED FUNDING	500	0	500	1000	500
R EXPENSES					
	1727	1404	1900	2500	2000
EXPENSES	8275	7976	6791	6610	5744
(DEFICIENCY) OF FUNDS OVER EXPENSE					



GE Nuclear Energy

General Electric Company  
175 Curtner Avenue, San Jose, CA 95125

July 21, 1989

RECEIVED

JUL 31 1989

REACTOR ENGINEERING

Ms. Kathy Picka  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, Illinois 60525

Dear Ms. Picka:

This letter is to request you to predesignate \$200 from the Thermal Hydraulics Division account towards student travel to the ANS Winter Meeting in San Francisco. This amount is included in the approved 1989 Division budget.

The new Division Treasurer is Dr. Husain. I will be transferring the Division books to him at the Executive Committee Meeting in Philadelphia in August.

Thanks for your assistance.

Sincerely,

B. S. Shiralkar, Treasurer  
Thermal Hydraulics Division

BSS/dlp  
Attachment  
cc: A. Husain

AMERICAN NUCLEAR SOCIETY  
REQUEST FOR DISBURSEMENT OF DIVISION FUNDS

THERMAL HYDRAULICS DIVISION

INSTRUCTIONS:

1. Complete a separate form for each disbursement
2. Send forms to headquarters, Public Communications Department
3. State any special mailing instructions
4. Attach receipts or other documentation

REQUEST DATE:

7/20/89

PAY TO: FR

STUDENT TRAVEL TO ANS  
NAME  
MTG. IN SAN FRANCISCO

ADDRESS

CITY

STATE

ZIP CODE

TELEPHONE

AMOUNT:

\$ 200 -

REASON FOR  
DISBURSEMENT:

STUDENT TRAVEL TO ANS  
MTG. IN SAN FRANCISCO

APPROVED BY:

B.S. SHIRALKAR / TREASURER  
NAME DIVISION POSITION

DIVISION

THERMAL HYDRAULICS /  
NAME DIVISION POSITION

FOR ACCOUNTING DEPARTMENT VERIFICATION:

       BUDGET

       NON-BUDGET

DATE FUNDS PAID                     

Check Number

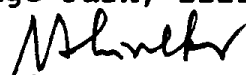


GE Nuclear Energy

General Electric Company  
175 Curtner Avenue, San Jose, CA 95125

July 20, 1989

TO: Christian Krapp  
ANS  
555 North Kensington Avenue  
La Grange Park, Illinois 60525

FROM:   
B. S. Shiralkar, Treasurer  
Thermal Hydraulics Division

SUBJECT: Division 1989 Forecast and 1990 Budget

Attached is the 1989 forecast and 1990 proposed budget for the Thermal Hydraulics Division. The incoming Treasurer, Dr. A. Husain will be taking over in August at the Division Executive Committee Meeting at the National Heat Transfer Conference in Philadelphia. (Also attached is a more detailed breakdown of the budgets).

RECEIVED

JUL 25 1989

REACTOR ENGINEERING

BSS/dlp  
Attachment  
cc: RB Duffey  
A. Husain  
VH Ransom

AMERICAN NUCLEAR SOCIETY  
 FORECAST 1989 BUDGET 1990 ESTIMATES

THERMAL HYDRAULICS	ACTUAL		APPROVED	PROPOSED	
	1987	1988	BUDGET 1989	FORECAST 1989	BUDGET 1990
<b>BUDGET FUNDS</b>					
CURRENT YEAR MBR ALLOC	1087	1083	1083	<u>1084</u>	<u>1084</u>
CARRY FWD, PRIOR YEAR	277				
OTHER BUDGET FUNDS	8638	8297	7608	<u>8026</u>	<u>6660</u>
<b>TOTAL BUDGET FUNDS</b>	<u>10002</u>	<u>9380</u>	<u>8691</u>	<u>9110</u>	<u>7744</u>
<b>BUDGET EXPENSES</b>					
<b>NEWSLETTERS</b>					
AWARDS, PLAQUES	792	904	800	<u>900</u>	<u>900</u>
NATIONAL MEETING COSTS	35				
<b>DIVISION OFFICER EXPENSE</b>					
STUDENT SUPPORT	400	300	500	<u>500</u>	<u>500</u>
SCHOLARSHIP/NEED FUNDING	500		500	<u>1000</u>	<u>500</u>
OTHER EXPENSES		200	100	<u>100</u>	<u>100</u>
<b>TOTAL EXPENSES</b>	<u>1727</u>	<u>1404</u>	<u>1900</u>	<u>2500</u>	<u>2000</u>
<b>EXCESS, -DEFICIENCY OF BUDGET FUNDS OVER EXPENSE</b>	<u>8275</u>	<u>7976</u>	<u>6791</u>	<u>6610</u>	<u>5744</u>

MINUTES OF THE  
ANS THERMAL HYDRAULICS DIVISION EXECUTIVE COMMITTEE

AUGUST 7, 1989

Members Attending: V. H. Ransom, M. Z. Podowski, A. Husain, B. S. Shiralkar, M. Ishii, A. E. Levin

Others Attending: T. G. Theofanous, Y. A. Hassan

The meeting was called to order at 8:01 P.M. by Chairman V. H. Ransom.

V. H. Ransom made some opening remarks regarding the state of the Division. The finalization of the rules and operating procedures of the Division has resulted in a much better organization than has been the case in the past. Division membership is constant, and the Division's finances appear to be in good shape, although the Karlsruhe International Topical Meeting (NURETH-4) will not provide any income to the Division. Overall, the state of the Division is good.

Following the Chairman's opening remarks, A. E. Levin reported on the minutes of the Executive Committee's meeting of October 30, 1988. No corrections were made, and the minutes were accepted as submitted.

B. S. Shiralkar presented the Treasurer's report. His written summary is included as Attachment A. At the request of the Chairman, the scholarship fund contribution that the Division makes each year was reviewed, as reported in the previous Executive Committee meeting minutes. He has concluded that the Lamarsh Fund is still appropriate for Division support, and \$500 will be allocated for the coming fiscal year. Since the Division's 1988 contribution was in fact not made until the current year, our 1989 contribution will be shown in Division records as \$1,000.

M. Ishii reported on Program Committee activities. A recommendation was also brought before the Executive Committee to schedule the 5th International Topical Meeting on Nuclear Reactor Thermal Hydraulics in 1992, to be held in the United States. A motion to accept the Program Committee's recommendation was passed.

V. H. Ransom and M. Ishii brought to the Committee's attention a questionnaire distributed by the ANS Professional Divisions Committee. It was decided that V. H. Ransom would be responsible for completing the questionnaire. He will solicit information from the Executive Committee and the Program Committee Chairman, and forward the results to the PD

T. G. Theofanous reported for G. E. Dix on the activities of the Honors and Awards Committee. The Best Paper Award has been awarded to Obot & Ishii (paper title unavailable). The H&A Committee also requested permission to change its internal procedures to facilitate nominations for the Best Paper Award and for ANS Fellows and the THD Technical Achievement Award. The committee also filed a request for funding for a training program.



of the Division membership.

V. H. Ransom also reported that the revised Division Bylaws were approved by both the ANS and the Division membership. The Division was complimented by the Society on its initiatives in this area, in the hope that THD's actions will be an example to other Divisions.

Results of the Division elections were reported. The new officers are:

Chairman: R. Duffey  
Vice Chairman/  
Chairman Elect: M. Ishii  
Secretary: B. S. Shiralkar  
Treasurer: A. Husain  
Executive Committee (at large): T. Larson  
M. Podowski  
J. Weisman

It was also reported that three members will be added to the Program Committee to fill open slots. All addresses of committee members will be checked to make sure Division records are up-to-date.

The Division has been requested to provide candidates for consideration for nomination to the ANS Board of Directors and for Society Vice President/President Elect. A. Husain suggested that Tom Fernandez and Gary Dix be recommended for Board nominations, and that N. E. Todreas be recommended for Society VP/PE. M. Podowski recommended that R. T. Lahey be submitted for ANS VP/PE, as well.

V. H. Ransom reported that W. Wulff has responded to R. T. Lahey's request for statistics on the Division's participation in the National Heat Transfer Conference. A copy of Wulff's letter to Lahey is included as Attachment B.

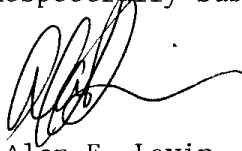
The Committee moved on to New Business. V. H. Ransom also provided the results of a questionnaire sent to Division members to determine interest in involvement in Division activities. Those members who responded positively are listed in Attachment C. The Division can use this list to help fill openings on committees and subcommittees as they occur.

The ANS has requested that Divisions notify ANS Headquarters if assigned rooms at ANS national meetings will not be used for Division governance. Because of the International Heat Transfer Conference in 1990, the National Heat Transfer Conference will not be held. All THD governance meetings will therefore be held at the 1990 ANS Annual Meeting in Nashville (June 10-15). The affected committees are: Editorial Subcommittee, Program Committee, Executive Committee, and Honors and Awards Committee.

V. H. Ransom noted that Membership Committee Chairman J. Guppy is developing a program for new Division members. He will transmit a list of new members to Guppy to assist in this activity.

No further business was brought before the Committee, and the meeting was adjourned at 8:47 P.M.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'A. E. Levin', with a long horizontal flourish extending to the right.

Alan E. Levin  
THD Secretary

9

ANS Thermal Hydraulics DivisionTreasurer's Report - June 1989

The Thermal Hydraulics Division ended 1988 with a balance of \$7,976 which will be carried over into 1989.

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The expenses for the year were \$904 for the Division Awards and Plaques (up from \$792 in 1987) and \$500 for student support (travel to national meetings and student conferences). At the last October meeting, it was decided that the ANS scholarships available for funding should be reviewed. Subsequently, in March we chose to continue supporting the LaMarsh Fund. The \$500 contribution was authorized in March and will show up as an expense in 1989, not in 1988. Because of this the 1988 expenses add up to \$1,404, about \$500 less than planned.

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B. S. Shiralkar, Treasurer  
Thermal Hydraulics Division

AMERICAN NUCLEAR SOCIETY  
FORECAST 1989/PROPOSED 1990 BUDGETS

THERMAL HYDRAULICS	ACTUAL 1987	ACTUAL 1988	APPROVED BUDGET 1989	FORECAST 1989	PROPOSED BUDGET 1990
BUDGET FUNDS					
CURRENT YEAR MBR ALLOCATION	1087	1083 ✓	1083	1084	1084
CARRY FWD, PRIOR YEAR	277	0	0	0	0
OTHER BUDGET FUNDS	8638	8297 ✓	7608	8026	6660
PRIOR YR TOP MTG INCOME	8563	8275	7533	7976	6610
CURRENT YR TOP MTG INCOME	0	0	0	0	0
DIVISION LUNCHEON INCOME	75	22	75	50	50
TOTAL BUDGET FUNDS	10002	9380	8691	9110	7744
BUDGET EXPENSES					
NEWSLETTERS	792	904 ✓	800	900	900
AWARDS, PLAQUES	35				
NATIONAL MEETING COSTS					
DIVISION OFFICER EXPENSE	400		500	500	500
STUDENT SUPPORT					
TRAVEL, NATL MTGS	200	500	200	200	200
STUDENT CONFERENCES	200	300	300	300	300
SCHOLARSHIPS/NEED FUNDING	500	0	500	1000	500
OTHER EXPENSES			100	100	100
TOTAL EXPENSES	1727	1404	1900	2500	2000
EXCESS(DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	8275	7976	6791	6610	5744

ATTACHMENT B

BROOKHAVEN NATIONAL LABORATORY  
ASSOCIATED UNIVERSITIES, INC.

Upton, Long Island, New York 11973

(516) 282-2608  
FTS 666-2608

Department of Nuclear Energy

**RECEIVED**  
R. B. DUFFEY  
JUL 10 1989

July 5, 1989

File No.	Action	Info.

Professor R. T. Lahey, Jr.  
Dept. of Nuclear Engineering  
and Engineering Physics  
Rensselaer Polytechnic Institute  
Troy, NY 12180-3590

Dear Dick:

This is in response to your letter of June 27, 1989, to Rom Duffey.

At the 1989 NHTC, ANS is sponsoring

- (i) the Plenary Lecture, "Thermofluid Science in Severe Nuclear Accidents," by Dr. T. G. Theofanous,
- (ii) the Panel Discussion on "Research Needs in Two-Phase Flow and Heat Transfer," chaired by R. T. Lahey, Jr. and V. Schrock,
- (iii) five Technical Sessions:

- Waves and Instabilities in Two-Phase Flow,  
chaired by Kocamustafaogullari,
- Two-Phase Flow Modeling and Applications,  
chaired by W. Wulff,
- Thermohydraulic Phenomena in Reactor Systems and Components,  
chaired by R. Duffey, and
- Fundamentals of Severe Accident Analysis (2 sessions),  
co-chaired by T. G. Theofanous and R. T. Lahey, Jr.

with the total of 25 papers.

There are two problems to report: (1) ASME, AIChE and ANS sessions are covering the same topics and compete for the same authors and papers. Future planning should be aimed at co-sponsoring sessions with the same topics, preferably before the calls for papers are sent out. There is no need to have separately sponsored sessions even when there are sufficiently many papers for

Letter to Prof. R. T. Lahey Jr.  
July 5, 1989  
Page 2

several sessions. (2) The quality of many technical papers is low, both in content and in form. This suggests that we are presenting too many papers at too many sessions in too many meetings.

I trust this satisfies your needs.

Best regards,

A handwritten signature in cursive script that reads "Wolfgang".

Wolfgang Wulff, Co-Chair  
1989 NHTC Program Committee (ANS)

WW:kb

cc: R. Duffey, EG&G

<u>Name/Address</u>	<u>EC</u>	<u>MC</u>	<u>H&amp;AC</u>	<u>PC</u>	<u>ES</u>	<u>N/TS</u>
Samin Anghaie 202 NSC University of Florida Gainesville, FL 32611	X					
Dr. Andrew White Savannah River Laboratory Bldg 773-11A Aiken, South Carolina 29808-0001						X
Joan M. Dahlke 5970 Leonard Ave. Idaho Falls, ID 83402					X	
Ralph M. Singer Argonne National Lab. Argonne, IL 60439						X
Dr. Raymond M. Crawford Engineering Research Group 1005 East Kennebec Naperville, IL 60540	X					X
William R. Peebles, Jr. 283 Willow Lake Road Aiken, South Carolina 29801	X					X
Professor Joel Weisman Department of Chemical and Nuclear Engineering University of Cincinnati Cincinnati, Ohio 45221	X					
Roger W. Cross 104 Sheffield Rd. Williamsburg, VA 23185					X	X
Dr. Alfredo Lopez Lechas Central Nuclear de Alvaraz Claudio Coello No. 123 Madrid 28006 Spain					X	X
Dr. Li-chi Cliff Po GPU Nuclear 1 Upper Pond Rd. Parrippamig, NJ 07054	X	X	X	X	X	X
L. E. Hochreiter Westinghouse Electric Company P. O. Box 355 Pittsburgh, PA 15230					X	X

<u>Name/Address</u>	<u>EC</u>	<u>MC</u>	<u>H&amp;AC</u>	<u>PC</u>	<u>ES</u>	<u>N/TS</u>
Jean Costa CENG/STT 85X 38041 Grenoble CEDEX France						
Prof. Jiwon Yang Korea Institute of Technology 400 Kusung-dong Daejeon Chung-Nam South Korea					X	
J. S. Miller Gulf States Utilities POB 220 St. Francisville, LA 70791						X
Professor K. Almeuas Chemical and Nuclear Department University of Maryland College Park, MD 20742				X		X
Dr. Samuel Cerni 101 Kings Dale Rd. Pittsburgh, PA 15221	X					
Ken Keith W8D199 Tennessee Valley Authority 400 W. Summitt Hill Knoxville, TN 37902					X	
Dr. A. Mannan Khan 710 S. Clinton #404 Athens, AL 35611		X			X	
R. P. Wadkins EG&G Idaho, Inc. P. O. Box 1625 Idaho Falls, ID 83415				X		X
Pui Kuan EG&G Idaho, Inc. P. O. Box 1625 Idaho Falls, ID 83415				X		
Phillip R. Shire MS K555 Group N-12 Los Alamos National Laboratory Box 1663 Los Alamos, NM 87544				X		X
Kenneth C. Heck P. O. Box 1462 Chattanooga, TN 37401					X	



<u>Name/Address</u>	<u>EC</u>	<u>MC</u>	<u>H&amp;AC</u>	<u>PC</u>	<u>ES</u>	<u>N/TS</u>
Professor G. Yadigaroglu Eth-Zentrum CH-8092 Zurich Switzerland	X			X	X	
Derek B. Ebeling-Koning 7136 Shannon Road Verona, PA 15147						
John S. Bennion 1116 East So. Temple Salt Lake City, UT 84102		X				
Professor Bahram Nassersharif Texas A&M University College Station, Texas 77843-3133			X	X		X

September 27, 1989

Dear ANS Student Branch President:

Greetings! The Student Branch at the University of Missouri-Rolla is proud to host the 1990 Midwest Region Student Conference, which will be held on February 22, 23, and 24, 1990. The conference will serve to highlight current areas of academic research relevant to the nuclear field, and it will also provide an excellent atmosphere in which students can establish contacts with their peers and share information about student branch activities. This announcement is to make you aware of the date of the conference and encourage the members of your branch to submit papers.

Papers in the following areas of interest may be presented, as well as other relevant topics:

reactor physics	fluid dynamics
reactor operations	heat transfer
reactor safety	applications of radioisotopes
reactor kinetics	nuclear fuel management
radiation shielding	probabilistic risk assessment
fusion	biological effects of radiation
medical physics	interaction of radiation with matter
health physics	numerical transport techniques
human factors	artificial intelligence applications

The deadline for summaries of the papers is January 20, in order to have the proceedings ready at the conference. The summaries should be approximately 500 words in length. At no time will a copy of the entire paper be requested.

Please inform your fellow students about this conference and please post the enclosed flyer. Information about lodging, transportation, and registration will be included in future correspondence. We look forward to seeing you in February and we hope your school will be an active participant in the conference.

Sincerely,

Bryan Audsley  
Conference Chairman

Enclosure

**INSTRUCTIONS:**

1. Complete a separate form for each disbursement
2. Send forms to headquarters, Public Communications Department
3. State any special mailing instructions
4. Attach receipts or other documentation

REQUEST DATE: Jan. 23, 1990

PAY TO: Univ of Missouri ANS Student Branch  
NAME Prof. Nicholas Tsoulfanis



November 17, 1989

**Ausaf Husain, Ph.D.**  
*Director, Reactor Engineering*

Ms. Kathy Picka  
American Nuclear Society  
555 N. Kensington Avenue  
LaGrange, Illinois 60525

Dear Ms. Picka:

This letter is to authorize release of \$100 each from the Thermal Hydraulics Division account for support of student travel to the 1989 Winter Meeting in San Francisco and the 1990 Annual Meeting in Nashville.

This expenditure is part of the approved Thermal Hydraulics Division 1989 budget.

Thank you very much for your assistance.

Sincerely,

A handwritten signature in cursive script that reads "Ausaf Husain".

Ausaf Husain, Treasurer  
Thermal Hydraulic Division

AH:bam

cc: Dr. Romney B. Duffey, Chairman  
Thermal Hydraulics Division  
Idaho National Engineering Lab  
P.O. Box 1625  
Idaho Falls, ID 83415

AMERICAN NUCLEAR SOCIETY  
REQUEST FOR DISBURSEMENT OF DIVISION FUNDS

THERMAL HYDRAULICS

DIVISION

INSTRUCTIONS:

1. Complete a separate form for each disbursement
2. Send forms to headquarters, Public Communications Department
3. State any special mailing instructions
4. Attach receipts or other documentation

REQUEST DATE: 11/17/89

PAY TO: ANS Education & Training Div.  
NAME

ADDRESS

CITY

STATE ZIP CODE TELEPHONE

AMOUNT: \$ 100.

REASON FOR DISBURSEMENT: Student Travel Support for  
1989 Winter Meeting

APPROVED BY: AUSAF HUSAIN / TREASURER  
NAME DIVISION POSITION

DIVISION /  
NAME DIVISION POSITION

FOR ACCOUNTING DEPARTMENT VERIFICATION:

BUDGET  NON-BUDGET

DATE FUNDS PAID \_\_\_\_\_

Check Number \_\_\_\_\_

AMERICAN NUCLEAR SOCIETY  
REQUEST FOR DISBURSEMENT OF DIVISION FUNDS

Thermal Hydraulics DIVISION

INSTRUCTIONS:

1. Complete a separate form for each disbursement
2. Send forms to headquarters, Public Communications Department
3. State any special mailing instructions
4. Attach receipts or other documentation

REQUEST DATE: 11/17/89

PAY TO: ANS Education & Training Div.  
NAME

ADDRESS

CITY

STATE ZIP CODE TELEPHONE

AMOUNT: \$ 100.

REASON FOR DISBURSEMENT: Student Travel Support for  
1990 Annual Mtg.

APPROVED BY: AUSAF HUSAIN / Treasurer  
NAME DIVISION POSITION

DIVISION /  
NAME DIVISION POSITION

FOR ACCOUNTING DEPARTMENT VERIFICATION:

     BUDGET      NON-BUDGET

DATE FUNDS PAID           

Check Number

DRAFT AGENDA

AMERICAN NUCLEAR SOCIETY  
THERMAL HYDRAULICS DIVISION

November 26, 1989

- I. INTRODUCTIONS
- II. MINUTES OF LAST MEETING - R. Duffey/A. Levin
- III. ACTION ITEMS
- IV. TREASURER'S REPORT - A. Husain
- V. PROGRAM COMMITTEE REPORT - W. Wulff
  - A. National Summer Meeting
- VI. HONORS AND AWARDS - V. Ransom
- VII. STRATEGIC PLAN - M. Ishii
- VIII. OFFICERS AND EXECUTIVE COMMITTEE
- IX. MEMBERSHIP REPRESENTATIVE - J. Guppy
- X. MESSAGE TO MEMBERS/NEWSLETTER
- XI. ADJOURNMENT



**Ausaf Husain, Ph.D.**  
*Director, Reactor Engineering*

January 23, 1990

Mr. Christian Krapp  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, Illinois 60525

Dear Mr. Krapp:

1990 proposed budget for the Thermal Hydraulics Division was provided to you by Dr. Shiralkar on July 29, 1989. Please confirm the approval of the above mentioned proposed budget at your earliest convenience.

Thanks for your assistance.

Sincerely,

A handwritten signature in cursive script that reads 'Ausaf Husain'.

Ausaf Husain  
Treasurer, Thermal Hydraulics Division

bam

cc: Dr. Romney B. Duffey, Chairman  
Thermal Hydraulics Division  
Idaho National Engineering Lab  
P.O. Box 1625  
Idaho Falls, ID 83415