

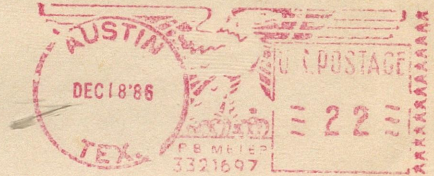


THE UNIVERSITY OF TEXAS AT AUSTIN

*Institute for Fusion Studies*

*Austin, Texas 78712-1081*

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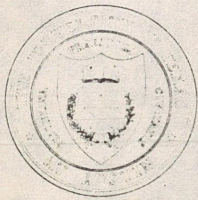


Dr. R. K. Varma  
Physical Research Laboratory  
Navrangpura  
Ahmedabad 380009  
INDIA



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INSTITUTE FOR FUSION STUDIES  
 THE UNIVERSITY OF TEXAS AT AUSTIN

Robert Lee Moore Hall • Austin, Texas 78712-1081 • (512) 471-1322

October 22, 1986

Dear Colleague:

To mark the occasion of Professor Marshall N. Rosenbluth's sixtieth birthday next year, the Institute for Fusion Studies will hold an international symposium on Thursday, February 5, and Friday, February 6, 1987. This symposium, to be held at the Joe C. Thompson Conference Center on the campus of The University of Texas at Austin, will feature invited scientific talks in areas in which Professor Rosenbluth has worked, as well as a banquet on the evening of his birthday, February 5.

You are cordially invited to participate in this special symposium. We would respectfully request that you inform us of your intention to attend by completing and returning the attached Registration Form. Information concerning hotel reservations, etc., will then be sent to you. Please do not hesitate to contact me if there are any questions.

We look forward to seeing you on this occasion to honor Professor Rosenbluth both as a scientist and as a friend and colleague.

Incidentally, you may also be interested in attending a separate workshop on "Turbulence in Confined Plasmas," which will be held by the Fusion Research Center at The University of Texas on February 2-4, 1987, immediately before the Rosenbluth Symposium.

Sincerely yours,

*James W. Van Dam*

James W. Van Dam  
 for the Organizing Committee

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**REGISTRATION FORM**  
**"ROSENBLUTH SYMPOSIUM" ON DYNAMICS OF PARTICLES AND PLASMAS**  
**February 5 and 6, 1987**

Name \_\_\_\_\_ Telephone \_\_\_\_\_

Address \_\_\_\_\_

A registration fee of \$150 US dollars covers admission to the symposium and social activities. Students may register for \$50. (Please make checks payable to "The University of Texas at Austin.")

Registration fee enclosed \_\_\_\_\_.

Check here \_\_\_\_\_ if you wish to bring a companion to the banquet (cost \$35).

Check here \_\_\_\_\_ if you are also interested in attending the "Turbulence in Confined Plasmas" workshop.

Please return this registration form to:

Ms. Carolyn Valentine, Symposium Coordinator  
 Institute for Fusion Studies, RLM 11.222  
 The University of Texas at Austin, Austin, TX 78712

INTERNATIONAL "ROSENBLUTH SYMPOSIUM" ON  
**DYNAMICS OF PARTICLES  
AND PLASMAS**

February 5 and 6, 1987  
Joe C. Thompson Conference Center  
University of Texas at Austin, Austin, Texas

***Program:***

On the occasion of Professor M. N. Rosenbluth's sixtieth birthday, the Institute for Fusion Studies of the University of Texas will hold an international symposium with invited lectures on topics related to magnetic confinement theory, electromagnetic wave-plasma interactions, transport theory, plasma turbulence, high energy particle physics, and space physics.

***Invited Speakers:***

B. COPPI (Mass. Inst. of Technology)	G. LAVAL (Ecole Polytech., Palaiseau)
J. M. DAWSON (Univ. Calif., Los Angeles)	T. D. LEE (Columbia Univ.)
H. P. FURTH (Princeton Univ.)	C. S. LIU (Univ. Maryland)
F. L. HINTON (General Atomic)	L. D. PEARLSTEIN (Livermore Lab.)
B. B. KADOMTSEV (Kurchatov Inst.)	R. F. POST (Livermore Lab.)
M. H. KALOS (New York Univ.)	D. C. ROBINSON (Culham Lab.)
C. F. KENNEL (Univ. Calif., Los Angeles)	R. Z. SAGDEEV (Space Res. Inst.)
N. M. KROLL (Univ. Calif., San Diego)	R. B. WHITE (Princeton Univ.)

***Organizing Committee:***

J. W. Van Dam, H. L. Berk, P. H. Diamond, R. D. Hazeltine, W. Horton, and D. W. Ross

***Registration:***

A registration fee of \$150 US dollars covers admission to the symposium and social activities. Students may register for \$50.

Further information, registration forms, and hotel reservation forms can be obtained by contacting the chairman of the organizing committee:

Dr. J. W. Van Dam, Institute for Fusion Studies, RLM 11.222, University of Texas at Austin,  
Austin, Texas 78712 USA

Telephone: (512) 471-6129

Telex: 9108741305 UTINTERNAT AUS

# INTERNATIONAL "ROSENBLUTH SYMPOSIUM" ON DYNAMICS OF PARTICLES AND PLASMAS

## PROGRAM

February 5 (Thursday), 8:30 a.m.-12:00 noon

- A. INTRODUCTION
- B. KEYNOTE  
1. *Rosenbluth's Contributions to Plasma Physics* R. F. Post
- C. PLASMA STABILITY I  
1. *Low Frequency Microinstabilities* B. Coppi  
2. *Nonlinear Tokamak Dynamics* R. B. White

February 5 (Thursday), 1:30-5:30 p.m.

- D. PLASMA STABILITY II  
1. *High Frequency Microinstabilities* L. D. Pearlstein  
2. *Pinch* D. C. Robinson
- E. PLASMA TRANSPORT  
1. *Monte Carlo Calculations* M. H. Kalos  
2. *Classical Dissipation and Transport* F. L. Hinton

February 5 (Thursday), 7:30-9:30 p.m.

BANQUET

February 6 (Friday), 9:00 a.m.-12:00 noon

- F. PLASMA RADIATION  
1. *Beat-Wave Accelerators* J. M. Dawson  
2. *Laser Plasma Interactions* C. S. Liu  
3. *Free Electron Laser and Beams* N. M. Kroll
- G. PLASMA TURBULENCE  
1. *Statistical Approach to Plasma Turbulence: Successes and Failures* G. Laval

February 6 (Friday), 1:30 p.m.-5:00 p.m.

- H. FIELD THEORY  
1. *Soliton Stars and Black Holes* T. D. Lee
- I. SPACE PHYSICS  
1. *Space Plasma Physics* R. Z. Sagdeev  
2. *Plasma Astrophysics* C. F. Kennel
- J. STATE OF TOKAMAK RESEARCH  
1. *Tokamak Research* B. B. Kadomtsev  
2. *Progress in Toroidal Confinement and Fusion Energy* H. P. Furth