

MFE-IFE TECHNICAL WORKSHOP

Princeton Plasma Physics Laboratory
Melvin B. Gottlieb Auditorium

September 14-16, 1998

PROGRAM

Monday, September 14

8:00 - 8:30 Registration in Front Lobby near MBG Auditorium

MFE SESSION I

8:30 R. Goldston
8:35 W. Nevins
9:05
9:40 J. Freidberg
10:10
10:50
11:20 R. Stambaugh
11:50
12:30

MFE TECHNICAL GOALS & STATUS (Chair: R. Goldston)

Welcome and Purpose
Introduction to Magnetic Confinement Fusion
Discussion
MHD Stability of Toroidal Plasmas
Discussion
Break
Plasma Confinement and Exhaust
Discussion
Lunch Break

IFE SESSION I

1:30 S. Bodner
1:35 J. Gardner
2:05
2:25 J. Lindl
2:55
3:15
3:30 S. Obenschain
4:00
4:20 W. Kruer
4:50
5:10
5:30

IFE TARGET PHYSICS (Chair: S. Bodner)

Introduction
Direct-Drive Target Designs
Discussion
Hohlraum and Fast Ignitor Target Designs
Discussion
Break
Hydrodynamic Instability Experiments with Indirect
and Direct Drive Targets
Discussion
Laser-Plasma Instabilities with Direct Drive and
Fast Ignitor Targets
Discussion
Summary Discussion
Adjourn

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**PROGRAM
(continued)**

Tuesday, September 15

MFE SESSION II

8:30 H. Neilson
9:00
9:40 K. Schoenberg
10:10
10:50
11:20 I. Hutchinson
11:50
12:30

MFE NEXT STEP ISSUES (Chair: D. Baldwin)

Toroidal Concept Advancement
Discussion
Exploratory Approaches to Fusion
Discussion
Break
Burning Plasma Experiments
Discussion
Lunch Break

IFE SESSION II

1:30 E. Lee
2:00
2:20 C. Olson
2:50
3:10
3:25 J. Sethian
3:55
4:15 S. Payne
4:45
5:05
5:30

IFE ADVANCED DRIVER OPTIONS (Chair: R. Bangerter)

Heavy Ion Accelerator
Discussion
Light Ions and Z Pinch
Discussion
Break
Krypton Fluoride Laser
Discussion
Diode Pumped Solid State Laser
Discussion
Summary Discussion
Adjourn

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**PROGRAM
(continued)**

Wednesday, September 16

MFE SESSION III

8:30 F. Najmabadi
9:00
9:40 C. Baker
10:10
10:50
11:20 K. Wilson
11:50
12:30

MFE REACTOR SYSTEMS (Chair: K. Thomassen)

MFE Power Plant Overview
Discussion
Blankets and Materials
Discussion
Break
Power/Particle Handling & Other Critical Technologies
Discussion
Lunch Break

IFE SESSION III

1:30 I. Sviatoslavsky
2:10
2:40 R. Moir
3:10
3:35
3:50 J. Duke
4:10
4:25 G. Besenbruch
4:40
4:50
5:30

IFE REACTOR SYSTEMS (Chair: M. Campbell)

IFE Power Plants
Discussion
Hylife Power Plant
Discussion
Break
Target Fabrication
Discussion
Target Injection
Discussion
Summary Discussion
Adjourn