Supernova Early Alert Network Workshop Agenda

Friday, September 11

8:30-8:45
Introduction and Overview

8:30-8:35 **L. R. Sulak**, Chair, Boston U. Dept. of Physics: Welcome
8:35-8:45 **Kate Scholberg/ Alec Habig**, Boston U.: Introduction

8:45-9:35
Supernova Neutrino Signal Overview

Chair: Art McDonald

8:45-9:15 **Adam Burrows**, U. of Arizona: "Overview of the neutrino signal and supernova theory"
9:15-9:35 **John Beacom**, Caltech: "Neutrino properties from SN199X"

9:35-10:35
Current SN Neutrino Detectors, Capabilities and Status – I

9:35- 9:45 **Mark Vagins**, UCI: "Overview of experiments"
9:45- 10:05 **Yoshiyuki Fukuda**, ICRR U. of Tokyo: "Super-Kamiokande"
10:05-10:25 **Jaret Heise**, UBC: "SNO"
10:25-10:35 **Charles Duba**, U. of Washington: "SNO NC detectors"

10:35-11:05
Coffee

11:05-12:00
Current SN Neutrino Detectors, Capabilities and Status – II

Chair: Maurice Goldhaber

11:05-11:25 **Walter Fulgione**, U. of Torino: "LVD"
11:25-11:40 **Kate Scholberg**, Boston U.: "MACRO"
11:40-12:00 **Adam Bouchta**, DESY Zeuthen: "AMANDA"

12:00-1:30
Lunch

1:30-2:30
Future Detectors I

Chair: Charlie Peck

1:30-1:45 **Mark Chen**, Princeton U.: "Borexino"
1:45-2:00 **Ludwig de Braeckeleer**, Duke U.: "KamLAND"
2:00-2:15 **Cliff Hargrove**, CRPP Carleton U.: "LAND"
2:15-2:30 **Alex Murphy**, Ohio State U.: "OMNIS"

2:30-3:00
The International Network

2:30-2:45 **Kate Scholberg**, Boston U.: "The inter-experiment network"
2:45-3:00 **Alec Habig**, Boston U.: "Astronomical alert overview"

3:00-3:30
Coffee

3:30-5:30
Parallel Discussion Groups

I: The neutrino signal and triangulation. Leader: **Adam Burrows**
II: Inter-experiment connection. Leader: **Art McDonald**
III: Connection with the astronomical community. Leader: **John Bahcall**

5:30-6:00
Brief summaries from discussion groups

Chair: Jim Stone

5:30-5:40 Discussion group I
5:40-5:50 Discussion group II
5:50-6:00 Discussion group III

Saturday, September 12

8:30-10:00
Supernovae and Supernova Neutrinos – Theory

Chair: Jim Lattimer

8:30-9:00 **Tony Mezzacappa**, ORNL: "Core collapse models"
9:00-9:30 **Stephen Bruenn**, Florida Atlantic U.: "Neutrino emission from core collapse supernovae"
9:30-10:00 **Madappa Prakash**, SUNY Stony Brook: "Supernova neutrinos as a probe of dense matter"

10:00-10:30
Coffee

10:30-11:15
The Neutrino Signal and Pointing

Chair: Steve Barwick

10:30-10:45 **Mark Vagins**, UCI: "Triangulation"
10:45-11:00 **Clarence Virtue**, Laurentian U. : "Triangulation"
11:00-11:15 **John Beacom**, Caltech: "Triangulation and asymmetric reactions"

11:15-11:35
Future Detectors II – Gravitational Waves

Chair: L. R. Sulak

11:15-11:30 **Rainer Weiss**, MIT: "LIGO"

11:35-12:05
Astronomical Observation and Alert Implementation I

11:35-12:05 **Bob Kirshner**, Harvard-Smithsonian CfA: "Supernova observation overview"

12:05-12:15
Group Photo

12:15-1:45
Lunch

1:45-3:00
Astronomical Observation and Alert Implementation II

Chair: John Bahcall

1:45-2:05 **John Bahcall**, IAS: “HST”
2:05-2:25 **Wei Cui**, MIT: “Satellite overview”
2:25-2:45 **Shri Kulkarni/Charlie Peck**, Caltech: “GRB detection”
2:45-3:05 **Leif Robinson**, Sky & Telescope: “Amateur astronomers”
3:05-3:15 **Mark Vagins**, UCI: “Fenton Hill telescopes”

3:15-3:45
Coffee

3:45-5:00
Parallel Discussion Groups

5:00-6:00
Final reports from discussion groups

Chair: Peter Doe

5:00-5:20 Discussion group I
5:20-5:40 Discussion group II
5:40-6:00 Discussion group III

Dinner at the Union Oyster House, 7:30 pm