14th ‘Aha Huliko’a Hawaiian Winter Workshop

“ROGUE WAVES”
January 25 – 28, 2005
Imin Conference Center
University of Hawaii, Manoa
Honolulu, HI 96822

Preliminary Agenda

Monday, Jan 24, 2005
5:30 -7:30PM Reception New Otani Kaimana Beach Hotel Sans Souci Room (Pupus/Punch)

Tuesday, Jan 25
8:00 AM Bus departs from New Otani Kaimana Beach Hotel to Univ. of Hawaii, Imin Conference Center, Jefferson Hall, Asia Room (second floor)
8:15-8:40 AM Registration (sign in and workshop fee $150.00 payment due)
8:40 AM Welcome

Morning Convenor: Peter Müller

8:45 AM Al Osborne “Introduction”
9:25 AM Wolfgang Rosenthal “MaxWave and physics”
10:05 AM Susanne Lehner “Radar measurements of extreme ocean waves”
10:45 AM Break
11:00 AM Frank Monaldo “Measurements of wave crest length and groupiness from spaceborne synthetic aperture radar”
11:40 AM Anne-Karin Magnusson “The statistics of mixed seas and their interpretation in assessing rogue wave conditions”

12:20 - 1:30 PM Lunch (downstairs in East West Center)
Afternoon Convenor: Al Osborne

1:30 PM  Ken Melville “Waves in the Gulf of Tehuantepec”
2:10 PM  Mark Donelan “The role of focusing in generating rogue wave conditions”
2:50 PM  Break
3:10 PM  Kristian Dysthe: “Distribution of extreme surface gravity waves from fairly large scale simulations”
3:50 PM  Dick Yue “Studying rogue waves using large-scale direct phase-resolved simulations”
4:30 PM  Bus leaves University for return to New Otani Kaimana Beach Hotel

Wednesday, Jan 26

8:00 AM  Bus departs from New Otani Kaimana Beach Hotel to Univ. of Hawaii, Imin Conf. Center, Jefferson Hall, Asia Room

Morning Convenor: Anne-Karin Magnusson

8:30 AM  Peter Janssen “Nonlinear four wave interactions and freak waves”
9:10 AM  Miguel Onorato “Quasi-resonant interactions and non-Gaussian statistics in deep water surface gravity waves”
9:50 AM  Frank Henyey “The "ILR" transform”
10:30 AM  Break
10:50 AM  Harvey Segur “Stabilizing the Benjamin-Feir instability”
11:30 AM  Constance Schober “Predicting rogue waves in random oceanic sea states”
12:10-1:30 PM  Lunch (downstairs in East-West Center)

Afternoon Convenor: Chris Garrett

1:30 PM  Burkard Baschek “Wave current interaction in tidal fronts”
2:10 PM  Oliver Buhler “Wave capture and wave breaking caused by mean-flow refraction”

2:50 PM  Break

3:10 PM  Peter Sullivan “Surface waves and ocean mixing: Insights from numerical simulations”

3:50 PM  Kevin Lamb “Extreme solitary waves in the ocean: Theoretical predictions”

4:30 PM  Bus departs University for return to New Otani Kaimana Beach Hotel

Thursday, Jan 27

8:00 AM  Bus Pick up from New Otani Kaimana Beach Hotel to Univ. of Hawaii, Imin Conf. Center, Jefferson Hall, Asia Room

             Morning Convenor:  Mark Donelan

8:30 AM  Michael Banner “Rogue waves and wave breaking-How are these phenomena related?”

9:10 AM  Johannes Gemmrich “A practical look at wave-breaking criteria”

9:50 AM  Al Osborne “Nonlinear time series analysis of surface wave fields with emphasis on rogue wave dynamics”

10:30 AM  Break

10:50 AM  Sverre Haver “Design of offshore structures: impact of the possible existence of freak waves”

11:30 AM  Howell Peregrine “Violent wave impact on structures”

12:15 PM  Bus leaves University for return to New Otani Kaimana Beach Hotel (Lunch on your own)
Friday, Jan 28

8:00 AM   Bus departs from New Otani Kaimana Beach Hotel to Univ. of Hawaii, East West Center, Jefferson Hall, Asia Room,

**Morning Convenor: Peter Müller**

8:30 AM   Luigi Cavaleri “The present frontier of wave modelling: towards a closer connection with the determinism”

9:10 AM   George Forristall “Understanding rogue waves: are new physics really needed”

9:50 AM   Michel Olagnon “Are rogue waves beyond critical predictions?”

10:30 AM   Break

**Discussion Session Convenors: Al Osborne, Chris Garrett and Peter Müller**

10:50 AM   Discussion Session I

12:15 - 1:30 PM   Lunch (downstairs in East West Center)

1:30- 2:30 PM   Discussion Session II

2:30 - 2:50 PM   Break

2:50 - 4:00 PM   Discussion Session III

4:15 PM   Bus leaves University for return to New Otani Kaimana Beach Hotel

5:30 - 8:00 PM   Banquet at the Outrigger Canoe Club (2909 Kalakaua Ave.)