# Damon Room, NCAR Mesa Laboratory Meeting Agenda

# Wednesday August 5

8:45-9:00	Opening remarks
9:00-9:55	James Riley On the dynamics of turbulent/non-turbulence interfaces in stably-stratified fluids
10:00-10:55	Joseph Werne  Parameter-dependent morphology in Kelvin-Helmholtz layers and their implications for modeling stratified turbulence

## Coffee Break

 $\begin{array}{c} 11:20\text{-}12:05 \quad \text{Yukio Kaneda} \\ \qquad \qquad Length \ scales \ in \ turbulent \ flows \end{array}$ 

## Outdoor observations (a working lunch)

13:30-14:25 James McWilliams Oceanic submesoscale dynamics: Dense filament frontogenesis & arrest by boundary layer turbulence

14:30-15:25 Subhas Karan Venayagamoorthy  $A\ framework\ for\ the\ prediction\ of\ turbulent\ diapycnal\ mixing \\ in\ stably\ stratified\ geophysical\ flows$ 

## Coffee Break

15:55-16:50 David Richter

How far upscale does a dispersed phase influence turbulence?

## Reception Mesa Lab Cafeteria

#### 18:30 Bus departs for the hotel

#### Thursday August 6

9:00-9:55 Peter Davidson

Planetary dynamos driven by helical waves

10:00-10:55 Boris Galperin

Turbulence and waves on a westward jet - an experimental study

#### Coffee Break

11:20-12:15 Stephen Belcher

The diurnal cycle of the ocean surface boundary layer

#### Outdoor observations (a working lunch)

13:30-14:25 Charles Meneveau

Synchronization of chaos in fully developed turbulence

14:30-15:25 Harm Jonker

The prediction horizon of convective boundary layers

#### Coffee Break

15:55-16:50 Gabriel Katul

Co-spectral budgets link energy distributions in eddies to bulk flow properties

18:30 Dinner The Med

20:30 Bus departs for the hotel

## Friday August 7

8:45-9:40 John Finnigan

Canopy-boundary layer coupling in convectively unstable flows:

A tale of interacting instabilities

9:45-10:40 Andreas Muschinski

Optical turbulence: from first principles to working models

#### Coffee Break

11:00-11:55 Yoshiyui Tsuji

Large and small scale interaction of pressure in turbulent boundary layers

## Outdoor observations (a working lunch)

13:10-14:05 Stephen de Bruyn Kops

Classical scaling and intermittency in strongly stratified Boussinesq turbulence

#### 14:10-15:05 Michael Waite

Physical- and eddy-viscosity effects in simulations of stratified turbulence

#### 15:10-15:30 Esa-Matti Tastula

Insights into the performance of the QNSE-EDMF scheme in stable and unstable conditions

# **End-of-Meeting**

# Up-the-hill-Refreshments Tree Plaza

17:00 Bus departs for the hotel