Workshop Goals

• Promote the use of SORCE SSI and its variability in a variety of applications: climate, chemistry, radiative transfer, …
  – **Provide** better understanding of what SORCE SSI data are available, format, cadence, sampling and spectral resolution, precision and accuracy
  – **Gain** better understanding of current and future user community needs

• Emphasis on part of spectrum where greatest *absolute* variability occurs (200-2000 nm)

• Emphasis on climate processes, mechanisms of climate response to SSI variability

• Foster new interactions between modeling community and SORCE science team

• Ultimate goal is improved understanding of underlying physical processes responsible for Sun-Climate connections
Overview of measured SORCE SSI and its variability
Jerry Harder

Overview of models of SSI variability, users, applications
Judith Lean

Paleoclimate applications
Caspar Ammann

Coupled climate/atmospheric models
WACCM
Dan Marsh
HAMMONIA
Hauke Schmidt
GISS
Judith Lean

Earth atmosphere radiative transfer
Jennifer Delamere

Solar Radiation Physical Model (SRPM)
Juan Fontenla

LASP Interactive Solar Irradiance Datacenter (LISIRD)
Marty Snow