From the USU Colleges (Agriculture, Science, Natural Resources, Engineering) Targeted by Advance

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Dynamic modeling computer assisted studies

New collaborations?

Manufacturing
Cellular/Genetics
Economics
Social/Food/Health issues
Communications
Ecology -organismal land interaction

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## Research Foci

### Manufacturing
- F Ning: metals, heat transfer/ fluids, superalloys/lazers/ welding
- B Smith: heat transfer/ fluids
- L Li: superalloys/lazers/ welding

### Dynamic modeling/ computer assisted studies
- V Allen: modeling sociological concerns
- E Stone: dynamic systems
- A Bunker: verification analysis of programs
- T Hauser: fluid dynamics/parallel computing
- Y-Q Chen: dynamic systems models/robust control/fractional calculus
- R Ryal: ecosystem conservation models
- X Qi: image processing/ data mining

### Ecology--Organismal (Fish, Insect Plant Animal)- land interaction
- D Alston: entomology/integrated pest management
- K Sullivan: behavioral ecology/ornithology/conservation
- J Gervais: wild life ecology/conservation/ environmental risk assessment
- T Pittsinger: insect behavior/bee management
- P Budy: fish/watersheds
- H VanMegro: nutrient cycling/ ecosystem function
- A Anderson: bioremediation
- R Ryel: plant physiology/ conservation
- N McCoy: invasive species
- K Kopp: water conservation/ turfgrass/ nitrogen use
- D Rosenberg: landscape -population ecology/
- N Mesner: water quality/watershed/ nutrients
- M Baker: water quality ecosystem/ biogeochemistry
- D Roche: plant genetics/proteomics/plant physiology

### Social/Food/Health issues
- M Walsh: food products/food safety
- H Wengren: diet/ populations/gene effects
- V Allen: negotiation/ emotions/marital
- R Shiplsova: trade/consumer demand/ food safety
- P Silva: aerosol/ air pollution/ lasers
- N Mesner: watershed pollution
- L McNeil: drinking / water quality
- J MacAdam: forages/plant physiology (growth/stress)
- M Barkworth: plant systematic/GIS
Cellular/Genetics
- I Nemere  hormonal control/ signal transduction
- A Anderson  genes for microbial and plant interactions
- C VonDohlen  insect systematics/ evolution

Economics
- R Shiptsova  trade/ consumer demand
- N McCoy  natural resources

Communications
- M Tomkins  microwaves/communications/ electromagnetic
- T Mosher  imagery/small satellites