CHEMISTRY

- Drug Evolution
- Conserve Biological Diversity
- Carbon Dioxide Reduction
- Develop Alternative Energy
- Access to STEM Education
- Environmental Justice
- Clean Water
- Educational Dev. & DEI

Other notes:
- Chemical Analysis
- Synthetic Chemistry
- Liquid Chromatography
- Data & Info
- Collection & Processing
Education Disorders

Health/Dev. Disparities
- Rural/Frontier
- Ethnicity

Education Disparity
- Lifespan
- Communication Disorders
- At Risk Populations

Evidence-Based Research
- Quality
- Translation

Culturally Consistent Interventions & EBP

Surgical Outcomes
- Effective Treatment
- Early Intervention
- Surgical Outcomes
Leveraging WI Resources to Solve Grand Challenges

How to balance human water value with Earth System needs?

- Life on the edge: ocean health, resources, climate regulation, hazards (tectonic, sea level rise)

Global resource sustainability

ENERGY TRANSITION: sustainability resources, economic feasibility

CLIMATE CHANGE

- Trust in science
- Ocean conservation
10/17/19 Graduate Education

- Transdisciplinary Office
- Chronic health expertise
- Age-related disorder expertise
- Anthropology expertise

Interaction of Environment Change + Social Change + Health

- Quality, validity, and integrity of information and dissemination
- Pandemic management + antibiotic resistance

Development & Delivery of "Education"

- Cognitive development expertise
- Community applied science at all ages expertise

Biodiversity Loss

- Adaptation: Biological, cultural, institutional, ecological

Anthropology expertise
Neuroscience
- Changing nature of work
- Technology
- Human resources in WY
- Science + outreach
- Education + trust

Environment
- Natural
- Social
- Addiction
- Obesity
- Suicide/mental health

Disability
- Neurodegenerative disease
- Cancer

Environmental contamination + neural development

Unique population demographics + age

Rural work + altitude + weather
1. Impact loan pool - Economic Opportunity
   - Evaluate, monitor, improve, adjust
2. Parity - Equal opportunity
   - Health, education, markets, technology, cost, climate change
3. Focus on right technologies
   - Drugs, energy, cell phone
4. Protection of natural resources
   - Ethics, tourism
   - State relations with American, foreign nations
   - Use of coal & economics, military cost
5. Education
   - Local schools
   - Work, education, growth, foreign
   - Economic stability
6. Economic growth
   - Jobs, education, growth, local
   - Work, energy, growth, foreign
   - Economic stability
7. Economic growth
   - Jobs, education, growth, local
   - Work, energy, growth, foreign
   - Economic stability
8. Economic growth
   - Jobs, education, growth, local
   - Work, energy, growth, foreign
   - Economic stability
9. Economic growth
   - Jobs, education, growth, local
   - Work, energy, growth, foreign
   - Economic stability

Oct 25, 2019
Law Education
Wyoming Cancer Initiative

Molecular Biology

- Improved Research Office
- Incentives
- Grant Administrative Support
- Assist with Federal and Challenges

Building Intellectual Capital
- How cells & organisms work
- WWAMI-style programs

Wyoming ENERGY Resources
- Supercomputing Infrastructure

Big Data
- Neural Networks
- Machine Learning
Water Resources
Natural Disasters
Computational Science
Quantum Information Science

* How to facilitate Interdisciplinary Research
* Global Change
* Quantification of Emission
* Research Support Services
* Expanding Representation of Underrepresented Groups in Research
* The Future of Work
* Decarbonizing the Nation's Infrastructure
Why Economic Change?

Displaced People

Ecological Destruction

Strong Institutions to address problems?

Nationalism?

Empathy to others?

Global catastrophic risks

Social support elder care
One Health - health of humans, animals, and the environment is interdependent
focus on challenges for WY/Rocky Mountain West:
- infectious disease, including emerging and diseases occurring at human/animal/environmental interfaces
- disease ecology, including wildlife, livestock, pathogen, landscape genomics, impacts of climate change on disease ecology
- global health issues, especially affecting developing countries
- health intersections w/ outdoor recreation, tourism, and WY heritage

All of the above will involve education, training, engagement/outreach, research, with transdisciplinary experts using a variety of tools