2015 UTEP IDR Symposium

Flash Presentations

IDR

Center for Law & Human Behavior

Dr. Michael R. Smith
Director

clhb.utep.edu

Center for Law & Human Behavior

Mission:

- To assist faculty in the pursuit of funded research by providing them with the expertise and support needed in the development of competitive, multidisciplinary research proposals
- To foster partnerships with local, state, and federal government agencies to support interdisciplinary research initiatives
- To build and sustain intra- and extramural multidisciplinary collaborations among research clusters to pursue sponsored research contracts and grants
- To help catalyze the efforts of social and behavioral science faculty and students in the pursuit of UTEP's goal of becoming a Tier 1 research university

Goals:

- To sponsor scholarly lectures, seminars, and conferences in the area of social and behavioral sciences.
- To award seed funding to advance the development of multidisciplinary research proposals
- To facilitate the development and engagement of undergraduate and graduate student research in social and behavioral science in collaboration with COURI and stakeholder academic departments

Center for Law & Human Behavior

Services

Pre-Award:

- Proposal development and planning:
  - Identifying strategic funding opportunities and collaborations
- Assist in the planning and development of research proposals:
  - Assist with proposal review (internal and external)
  - Budget development
  - Budget justifications
  - Submission

Post-Award:

- Administration
  - Monitor expenditures to ensure compliance with federal regulations, agency specifications and University policy and procedure.
  - Effort reporting
  - Subcontract administration
  - Purchasing and inventory control
  - Progress and financial reporting
  - HR assignments
  - Requests for no cost extensions
  - Serve as liaison between UTEP and funding agency
  - Closeout of award

Conference Space

Resources

Room	Sq. Ft.	Conference	Classroom	U -Shape
231	423	12	22	14
221	617	12	30	14

Room 221 features:

- Epson overhead projector
- Electric projector screen
- Adjustable lighting
- Blackout shades

Room 231 features:

- Epson overhead projector
- Smartboard
- Dry erase huddle boards
- Video conference system
- Polycom conference phone
- Podium
- Adjustable lighting
- Blackout shades

Center for Law & Human Behavior

Contact information:

Center for Law & Human Behavior

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Center for Transportation Infrastructure Systems

The only center in US designated as National and Regional UTCs

addresses needs for basic and applied research as related to transportation infrastructure

Facilities

http://ctis.utep.edu/

(Best Between College Station and Phoenix)

- Modern Materials Laboratory
- SHRP Asphalt Laboratory
- Simple Performance Tests
- Laboratory for Engineering and Environmental Geophysics
- Excellent Simulation and Computational Facility
- Advanced Transportation Research Laboratory

CTIS Staff

- **8 Core Faculty**
- **9 Contributing Faculty**
- **6 Research Engineers**
- **Approx. 50 students**

Statistics (FY 2013-2015)

Number of Proposals Submitted		59
Number of Proposals Funded		22
MS Theses Awarded		22
PhD Dissertations Awarded		5
Publications	Referred Journal	34
	Conference Proceedings	40
Annual Students Supported	PhD	9
	GRA	10
	UGRA	28
External Funding		$2.8 million

29 Active Projects

Recent Research Sponsors

- **State and Local**
  - Texas Department of Transportation
  - El Paso Metropolitan Planning Organization
  - City of El Paso
- **National**
  - Federal Highway Administration
  - Strategic Highway Research Program
  - National Cooperative Highway Research Program
  - US Department of Transportation
  - Army Engineer Research and Development Center
  - Federal Railroad Administration

Project Highlights

NCHRP Projects

- **24-45: Evaluating Mechanical Properties of Earth Material During Intelligent Compaction**

CTIS Highlights

Two Patents

Portable Seismic Property Analyzer

UTEP Pull-off Device (UPOD)

Two Top Innovation Awards from TXDOT

- TXDOT 0-1243 - Automated Equipment for Characterizing the Properties and Thicknesses of Pavement Layers
- TXDOT 0-4046 - Impacts of Construction Quality on Life Cycle Performance of Pavements Using Mechanistic Analysis

CTIS Highlights

10 FHWA Eisenhower Fellowships

Undergraduates presented and published under in the 94th Transportation Research Board (TRB) annual meeting.

Danniel Rodriguez Awarded 2014 CAIT Student of the Year

CAIT 2014 CUTC Student of the Year
Danniel Rodriguez

This year, the CAIT Council for University Transportation Centers (CUTC) Student of the Year Danniel David Rodriguez comes from National UTC consortium partner University of Texas at El Paso (UTEP).

Rodriguez is a first-generation Mexican-American doctoral student and research assistant. He received his bachelor's degree in civil engineering from UTEP in 2011 and dove into the doctoral program immediately.

He has been involved in pavement research since he was an undergraduate. His current research focuses on flexible pavement performance and asphalt-treated base design. Now in the final year of study for completion of his Ph.D., his thesis title is *Performance Life of Various Hot Mix Asphalt Mixtures in Texas*.

Rodriguez's adviser, Dr. Soheil Nazarian, director of UTEP's Center for Transportation Infrastructure Systems, describes him as, "... hardworking and self motivated." Nazarian says, "I'm impressed that he is not afraid of the unknown. He currently is developing sophisticated models for estimating the survival rate of pavement layers; with his perseverance, he has been able to understand and solve several very complicated problems."

Nazarian also says that Rodriguez is a great presenter and communicator, at ease whether he's talking to fellow students or a sponsor, and he notes Rodriguez "follows through the tasks he's assigned to perfection."

Rodriguez's academic accomplishments are extraordinary, though not unusual for ambitious sons and daughters of immigrant parents. He is an NSF Louis Stokes Alliances for Minority Participation Fellow, an Eisenhower Hispanic-Serving Institutions Fellow, and the current president of the Southwestern District Caucus of Chi Epsilon: The Civil Engineering Honor Society.

After he completes his doctoral degree, Rodriguez says he plans to work for FHWA. "I see working for FHWA as a way to give back to the country that has provided so many opportunities for me and my family to succeed," he says.

Rodriguez was selected as the 2014 CAIT Student of the Year due to his dedication to pavement research, his academic track record and research merit, and for his vision and ambition to make service to his community and country the first priority in his career as a transportation professional.

He currently resides in El Paso and describes himself as a devout Catholic and a "pretty good dancer." He cites Pope Francis for inspiration in following one's dreams: "Dear young people, do not bury your talents, the gifts that God has given you! Do not be afraid to dream of great things!" Rodriguez clearly has embraced the Pope's advice and is destined to achieve his dreams. ■

Source: Rutgers Center for Advanced Infrastructure and Transportation, Newsletter Issue 16-January 2015

Mehran Mazari was Recipient of the 14th International Contest on LTPP Data Analysis

Prajwol Tamrakar Awarded International Road Federation (IRF) Fellowship 2015

UTEP Participation in UTC

National UTC ***($3million/yr, UTEP share ~$150,000/yr)***

Theme: State of Good Repair

Objective: Conducting cutting-edge research in achieving state of good repair of nation's infrastructure

Team: Rutgers, Columbia, NJIT, Princeton, Delaware, Virginia, Virginia Tech

Region 6 UTC ***($2.75 million/yr , UTEP share ~$235,000/yr)***

Theme: State of Good Repair/Livable Communities

Objective: Addressing regional research needs for state of good repair to improve living condition especially in rural regions with concentration of low-income/minority population

Team: Oklahoma, Oklahoma State, Langston, Arkansas, New Mexico, Texas Tech, Louisiana Tech

Highlights of UTC at UTEP cont…

2014 Oklahoma Transportation Research Day

Women's Transportation Seminar (WTS)

OPPORTUNITIES IN RESEARCH, EDUCATION, AND OUTREACH WITH CENTER FOR ENVIRONMENTAL RESOURCE MANAGEMENT (CERM)

W.L. Hargrove, Director

CHALLENGES: LIFE IN THE DESERT

- Climate – hot, dry, windy
- Water Quantity
- Water Quality

  Inorganic - salt, arsenic, heavy metals,

  Biological agents – E. coli and others
- Air Quality – particulate matter, toxic chemicals, heavy metals

CERM MISSION STATEMENT

- *The Center for Energy and Environmental Research and Management (CEERM) provides university-wide leadership and coordination for environmentally related research, education, and outreach activities. The scope of the issues that we address spans from the local community to state, regional, national, and international.*

PRIORITY AREAS FOR CERM

Environment

- Air Quality
- Water Quantity and Quality
- Environmental Health
- Desert and Wetland Ecosystems

THEME

- Sustainability on the Border…

The intersection of natural and human dimensions…

In positive and negative ways

SUSTAINABILITY ON THE BORDER
INTERSECTIONS WITH PEOPLE
ANTHROPOGENIC FOOTPRINT
WATER
LAND
AIR
DESERT LANDSCAPE
LIFE IN THE DESERT

SOME CURRENT PROJECTS

WATER

- *Sustainable water resources for irrigated agriculture in a desert river basin facing climate change and competing demands: From characterization to solutions* – USDA, $5 million

AIR

- *Buen Ambiente-Buena Salud*: *Educational Strategies for Addressing Air Quality on the Border* – EPA, $1.25 million

Environmental Health

- *Transportation Matters: Health Impact Assessment of Proposed Public Transportation in Southern Doña Ana County, New Mexico* – Pew Charitable Trusts, $100,000
- *Health Impact Assessment of Proposed Water Improvement Project in Presidio, TX and Colonia Las Pampas* – Pew Charitable Trusts, $50,000

OTHER AREAS OF INTEREST

- *Environmental Justice*
- *Water, Sanitation, and Energy Issues in the Colonias on the Border*
- *Innovations in Graduate Education through Engagement of the Business Sector*
- *International Training and Education*

  France – LaSalle Polytechnic Institute – Beauvais

  Indonesia – University of Mulawarman – Samarinda, East Kalimantan

  Desert Rivers - ???

QUESTIONS?

Come to Discussion Table

CYBER-SHARE CENTER OF EXCELLENCE

Investigators:
Ann Q. Gates
Deana Pennington
Vladik Kreinovich
Craig Tweedie
Aaron Velasco
Natalia Villanueva Rosales

GOALS

Develop technology-enabled science research
- Data acquisition, integration, and analysis

Develop products to support interdisciplinary collaboration
- Methods and technologies

Develop a diverse workforce capable of:
- Developing/applying technologies in science
- Collaborating across disciplines

Center + 3 Subprojects

iConnect People and Expertise
CREST Cyber-ShARE Center of Excellence
A.Gates, D. Pennington, and M. Akbar

iLink Knowledge Across Disciplines, Data, and Models
Knowledge Representation, Negotiation, and Integration
N. Villanueva-Rosales and D. Pennington

iFuse Heterogeneous Data and Models
Integrated Analysis for Development of 3-D Models of Earth Structure
A. Velasco and V. Kreinovich

iSense Environments Autonomously
Advancing Understanding of Ecosystem Processes Using Cyberinfrastructure
C. Tweedie and V. Kreinovich

Center level: iConnect

Data management plans
Metadata management
- Data
- Projects
- Activities

Reporting

Center level: iConnect

Target reports:

- Student tracking
- Funding agency
- ORSP Centers
- Custom

iConnect People and Expertise
CREST Cyber-ShARE Center of Excellence
A.Gates, D. Pennington, and M. Akbar

Subproject: iLink

Automated:
Data transformation
Data integration
Data-to-model pipelines

Focus:
Environmental sensor data
Geospatial imagery
Biodiversity models
Water data & models

Answering Visualization-Queries Example

Subproject: iFuse

Data and model integration
- Data from different sources
- Different models

Focus:
- Geophysical data & models
- Earth structure

iFuse Heterogeneous Data and Models
Integrated Analysis for Development of 3-D Models of Earth Structure
A. Velasco and V. Kreinovich

Subproject: iSense

Sensor data
- Ground-based systems
- Aerial systems
- Satellite systems
- Data quality
- Data analysis
- Web-based provision

Target:
- Desert ecosystems
- Arctic ecosystems

Cyber-Share and YOU

Take advantage of new institutional infrastructure

- Expertise Connector
- MetaShare
- Interdisciplinary Enhancement Program
- IDRE Community

Learn from us

- Want to use field sensors? Consult with C. Tweedie!
- Want to integrate data? See N. Villanueva or V. Kreinovich
- Trouble collaborating across disciplines? See D. Pennington

Develop new collaborations with us. Let's get some funding!

Center for Inland Desalination Systems

Malynda Cappelle/ Associate Director

Presented at the 2015 UTEP Interdisciplinary Research (IDR) Symposium

24 March 2015

What/Who is CIDS?

- Center for Inland Desalination Systems
- Director: Dr. Tom Davis
  - Associate Director: ME! (Malynda Cappelle)
- (Affiliated) Civil Engineering Professors
  - Dr. Tony Tarquin
  - Dr. Shane Walker
  - Dr. John Walton
- Julia Bustillos (shared admin with CERM)
- And, many STUDENTS

A primer on inland desalination
(by way of example: El Paso)

Regional Water Resources

Billions of Gallons
45
40
35
30
25
20
15
10
5
0
1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
Hueco
KBH
Mesilla
Rio Grande

NEW MEXICO
TEXAS
DEEP WELL
DISPOSAL SITE
CONCENTRATE LINE
BY DEEP WELL DISP.
BLEND WELLS &
COLLECTION LINE
LOOP 375
SOURCE WELLS
RO PLANT SITE
© 2003
© 2003

Desal Prize

Water Production System
Well #3 Brackish Water
1.8 gpm
(9.9 m³/day)
4,000 mg/L TDS
NF270/NF90
Finished Water
1.87 gpm
(9.2 m³/day)
~500 mg/L TDS
Concentrate Reduction & Disposal System
Silica Purge Stream
To Evaporation Pond
EDM
NaCl
CIDS
Center for Inland Desalination Systems

WISH US LUCK!

Malynda Cappelle

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cids.utep.edu

CASSMAR

Center for the Advancement of Space Safety and Mission Assurance Research

IDR Symposium Flash Presentation

Spring 2015

CASSMAR Vision

Be the authoritative resource for human spaceflight risk reduction research.

CASSMAR Mission

Enable human spaceflight through interdisciplinary research to identify, characterize and mitigate the leading risks to safety and mission assurance.

Goals

1. Establish an interdisciplinary, cross-functional and sustainable research center focused on the enhancement of the safety, reliability and mission assurance of human spaceflight.

2. Establish and renew partnerships with government and commercial spaceflight organizations to identify primary spaceflight risk areas and implement contract mechanisms to functionalize research activities

3. Develop graduate curriculum tailored to educating the next generation of competent, diverse, and

Identified Primary Risks to Human Spaceflight*

1. Launch, ascent and re-entry mission phases
2. Collision with micro-meteoroid and orbital debris (MMOD)
3. Long-term energy storage (chemical, electrical, pneumatic)

* Summarized from NASA Integrated Risk Management System Program (2014)

CASSMAR Research Thrusts

- Current research core areas align with identified threats to human spaceflight, each with cross-cutting elements spanning both the Colleges of Engineering and Science:
  - Micrometeoroid and Orbital Debris (MMOD) Hazards
  - Structural Materials Performance in Extreme Environments
  - Spacecraft Stored Energy Hazards
- Future growth potential as new primary risks are identified through formal, agency-level risk

Micrometeoroid and Orbital Debris (MMOD) Hazards

MMOD research is divided into the following broad research efforts:

- Detection and Tracking
- Measurement and Characterization
- Modeling
- Protection

Cross-cutting research: CoS (Geo, Phys, Math, Astronomy) and CoE (MME, CE, ECE, CS)

Structural Materials Performance in Extreme Environments

Forensic Characterization of Spacecraft Material Degradation Mechanisms (Space Shuttl

Cross-cutting research core: CoE (MME, ME, CS, CE) and CoS (Geo, CHEM, PHYS)

Structural Materials Performance in Extreme Environments

Simulated Atmospheric Re-Entry

Cross-cutting research core: CoE (MME, ME, CS, CE) and CoS (Geo, CHEM, PHYS)

Spacecraft Stored Energy Hazards

High Pressure Pneumatic Storage Technology – Interactions with Materials and Structures

Cross-cutting research core: CoE (MME, ME, CE) and CoS (CHEM, PHYS)

Partnerships with

- In August of 2014, UTEP established a 5-year contract ($1M/yr) with Jacobs at the NASA Johnson Space Center (JSC) in Houston under the JETs prime contract
- Includes mechanisms to allow UTEP student and faculty researchers low-cost access to facilities, analytical instrumentation and expertise at NASA-JSC
- Contract facilitates the focused hiring of Jacobs personnel already actively supporting the NASA mission into research thrust areas of CASSMAR
- First wave of hiring centered on the MMOD research core area

Enabling the Next Generation of Manned Space Exploration

National Center for Border Security and Immigration

Victor M. Manjarrez, Jr.
Associate Director

THE UNIVERSITY OF TEXAS
AT EL PASO

Who are We?

- Department of Homeland Security grant funded Center
- 1 of 12 Department of Homeland Security Center's of Excellence

Future Potential Collaboration

Center Focus

Homeland security enterprise research and educational projects

- **Border Security**
  - Improving the effectiveness of border security operations
  - Enhancing investigative capabilities
- **Legitimate Trade & Travel**
  - Balancing trade efficiency with security needs
- **Immigration**
  - Immigrant integration into American society

Need More Information?

Visit us at the following:

- Jack C. Vowell Hall, 3rd Floor (747-7812)
- Website: http://ncbsi.utep.edu
- Twitter: @ncbsi

The Hunt Institute for Global Competitiveness

and

The Institute for Policy and Economic Development

Review and Outlook

Purpose and Mission

Generation of Data, Knowledge, and Analysis to:

- Foster Investment, Business Development, Economic Growth

  - Supply Chain, Financial/Human Capital, Minimize Risk

- Facilitate Optimal Public Policy Decisions

- Local, Regional, and **Binational Level**

Strategic Priorities

1. Acquisition and Housing of Regional Economic Indicators

1. Accessible and Actionable Analyses of Economic Indicators and the Regional Business Context

2. Dissemination of Analysis and Public Dialogue

Timeline

End of 2014 to January 2015

1. Establish Databases
2. Build Infrastructure, Strategic Plan
3. Stakeholder Outreach
4. Hire and Train Staff
5. Begin Operational Phase

Timeline

January 2015 to January 2016

1. Expand, Maintain Databases
   - Ongoing, Permanent
2. Publish Periodic Economic Analyses
   - Ongoing, Quarterly
3. Professional Symposia
   - Ongoing, Quarterly, Communicate Outcomes
4. Publish Major Regional Economic Studies
   - First by May 2015 (Infrastructure Financing)
   - Second by July 2015 (Financing Higher Ed.)
   - Third by October 2015 (Financing Cross Border Rail)

Accomplishments and Current Projects

I. Data Bases
II. Quantitative Analyses
III. Regional Economic Impact Model

Accomplishments and Current Projects

I. Data Bases on Website

1. Regional Indicators, by Sector and Jurisdiction

2. Stakeholder Database

   - Viewed 5,615 times
   - 55% New, 45 % Returning

3. Regional Supply Chain Database (Forthcoming)

Accomplishments and Current Projects

II. Quantitative Analyses

1. **Regional Infrastructure Financing Mechanisms and Their Economic Impact**

2. **Enhancing the Participation of Local Businesses in Federal Contracts (In Collaboration with IPED)**

3. The Impact of Divergent Funding and Regulatory Structures of Regional Higher Education on Workforce Development

4. Inter-Disciplinary Data Base and Analyses of Trans-Boundary Rail Infrastructure in the Paso del Norte Region

Accomplishments and Current Projects

Quantitative and Qualitative Analyses (Detail)

1. Enhancing the Participation of Local Businesses in Federal Contracts (In Collaboration with IPED)

   - Response to Study of Congressman O'Rourke
   - Low Levels of Local Business in Federal Contracts
   - Research Proposal Accepted; Survey, IMPLAN

2. Inter-Disciplinary Data Base and Analyses of Trans-Boundary Rail Infrastructure in the Paso del Norte Region

   - IDR Grant: Engineers, Economists, Lawyers, Scientists
   - Low Level of Regional Infrastructure Understanding
   - Database of Indicators and Analysis Established
   - Economic Impact Model Created

Institute for Policy and Economic Development

III. Regional Economic Impact Model

Expansion of REMI Model to Include an Integrated El Paso-Doña Ana County-Juárez Economic Impact Model

- First in the World, Value Added to UTEP, the Region
- Allow for More Rapid Cross Border Economic Support (E.g., Retail, Professional Sports, etc.); Substantial Revenue Stream
- Strategic Partnership with REMI to Showcase Model and Bring National/International Trainings to UTEP and El Paso
- Collaboration with World Bank to Deepen Detail of Indicators in Juárez

CETaL

Center for Excellence in Teaching and Learning

THE UNIVERSITY OF TEXAS AT EL PASO

1914 2014 CENTENNIAL CELEBRATION

BUILDING A CULTURE OF EXCELLENCE IN TEACHING AND LEARNING

"Interdisciplinary Collaboration involving the Scholarship of Teaching and Learning (SoTL)"

Dr. Larry Lesser

Director UTEP's Center for Excellence in Teaching and Learning (CETaL)

http://teachingcenter.wustl.edu/Scholarship/Pages/default.aspx

simplified continuum

- ‘Teaching tips’ paper: “cool activity/technique that I tried and why I liked it (and think students did)”

- **SoTL paper**: also includes evidence of effect of method on learning and a moderate literature search

(GOAL: understand/improve specific T&L practices for course)

- Paper for an education research journal:

also includes a theoretical framework,

additional focus on methodology/rigor, results being transferable/reproducible, etc.

(GOAL: develop/improve/test theory of how people learn)

CETaL

is an innovative community
dedicated to inspiring and engaging
scholars and practitioners
through programs, resources, and services
designed to prepare students
to meet lifelong intellectual, ethical,
and career challenges

cetal.utep.edu

cetal@utep.edu

join our e-mailing list!

PROGRAMS

- NEW INSTRUCTOR TRAINING
- FALL INSTRUCTOR RETREAT
- INT'L SUN CONFERENCE ON TEACHING AND LEARNING
- WISDOM WEDNESDAYS

RESOURCES

- SCHOLARSHIP OF TEACHING
- SOTL PROPOSAL AWARD
- PEER OBSERVATION
- FACULTY FORMATIVE FEEDBACK
- FACULTY MENTORING
- UT REGENTS' OTA RESOURCES
- WORKSHOP MATERIALS
- TEACHING PERIODICALS
- RESOURCES/TECHNOLOGY
- RESOURCES AND TEACHING CENTERS

How CETaL supports SoTL

- August 2014 FFR workshop (slides are posted)
- SoTL resources page on CETaL website
- First of CETaL's 4 Goals: "advance the SoTL across the UTEP campus"
- at Int'l. Sun Conference on Teaching and Learning, CETaL gives $300 award for best recent SoTL paper
- in fall 2014, CETaL launched the CETaL SoTL Proposal Award (to date: three $1000 awards), an award whose judging criteria are: potential for success, importance/clarity/originality of research question, appropriate methodology, feasibility of timeline and budget, potential for grant submission, and strength of interdisciplinary content

some interdisciplinary teams that won CETaL SoTL awards

- CETaL Proposal Award (Nov. 2014):

"Exploring Students' Conceptions about Engineering Research and Scientific Writing"

Reza Ashtiani (Civil Engineering);

Joseph Rodriguez (English)

- Scholarship of Teaching and Learning (paper) Award (2012):

discursive case study of problem-based inquiry learning

Larry Lesser (Mathematical Sciences);

Kerrie Kephart (Teacher Ed.), as co-PI of NSF grant from Engineering

Most SoTL outlets cross disciplines

While there are disciplinary journals in 60 disciplines that publish SoTL, there is also SoTL published in many journals that are inherently interdisciplinary:

- 70 general higher education journals, and
- 80 core SoTL journals (e.g., *IJSoTL*)

as of Jan. 2014, Digital Measures allows scholarship type(s) designated when entering a publication, thanks to CETL proposal; UTEP's P&T guidelines declare all 4 types legitimate

Activities Database

Publications

RETURN TO MAIN MENU

SAVE AND RETURN | SAVE AND ADD ANOTHER | RETURN (CANCEL)

If you wish for this to show in Digital Commons please select 'Yes' — No

Contribution Type — Journal Article, Academic Journal

Explanation of "Other"

(Boyer's) Scholarship Type (Check all boxes that apply)

- [ ] Application (e.g., translational research) or engagement (e.g., social/community issues)
- [ ] Discovery (basic research)
- [ ] Integration (e.g., synthesizing across areas; interdisciplinary research)
- [ ] Teaching and Learning (e.g., classroom innovations, action research)

SoTL: Motivations

- ~~Improves your course, motivation, teaching~~ awareness
- Puts emphasis on learning (and assessing it)
- Makes teaching process more public/shared
- Additional publications for your CV
- Bolsters teaching portfolio, award dossier
- Components of T&L in grant proposals can make stronger case for broader impact
- Natural vehicle to collaborate with colleagues
- Go beyond being disciplinary-only researcher
- Documenting learning for SoTL dovetails with reviewing/revising a program or curriculum

SoTL: Addressing Hesitations

"I teach only one section of this course a year and don't have a control or comparison group"

Use a colleague's class.

"I don't have enough expertise myself"

Collaborate! Search http://expertise.utep.edu/ for a collaborator with desired background

(to enter yours: Digital Measures→Personal & Contact Information)

my co-authors span many disciplines besides math/statistics education, including: mathematics, statistics, linguistics, bilingual education, psychology, sociology, business administration, educational technology

Regional Geospatial Service Center

Dr. Raed Aldouri

Table Discussions

IDR