Hazard Reduction and Recovery Center
Five-Year Report
2013-2017

The HRRC family at the Natural Hazards Workshop, 2018
This 5-year report, along with the supporting documentation found in the appendices, is designed to provide the College of Architecture’s Dean’s office and the College Research and Interdisciplinary Council (CRIC) with data upon which to base its review of the Hazard Reduction and Recovery Center’s (HRRC) activities during the period of 2013-2017. While some guidance has been provided regarding the information need to undertake the review of the College’s Centers, we have organize this report based on the five dimensions on which member of CRIC area asked to evaluate each center. These are: 1) Mission, 2) Impact on Research, 3) Impact on Service, 4) Impact on Teaching, and 5) Center Goals and Aspirations. Each section of this report provides a brief synopsis and summary of how the HRRC has addressed each of these areas, offering tables and charts to capture the overall accomplishments in each of these areas. In addition, we have made special note on how the HRRC’s activities have sought to promote both diversity and interdisciplinarity because we feel that these are quite important goals that should be considered in center evaluations as well.

For the purposes of this report the Hazard Reduction and Recovery Center is considered to be constituted of the College of Architecture’s personnel that constitute the Center’s core faculty and staff. These are the individuals that affiliate their grants (and hence share indirect) with the HRRC, help the center carry out its many research and service activities, teach classes in the Center’s certificate programs, mentor and/or chair the center affiliated graduate student committees, and mentor undergraduate students and post-docs affiliated with the center. The following represent the HRRC’s core faculty/staff:

1. Sherry Bame, Professor, LAUP
2. Eric Bardenhagen, Associate Professor LAUP and Associate Dept. Head, LAUP
3. Philip Berke, Professor LAUP and Director, Institute for Sustainable Communities
4. Bierling, David, HRRC Associate Director, Transportation Research
5. John Cooper, Associate Professor of Practice LAUP and HRRC Associate Director for Outreach
7. Jaimie Masterson, Associate Director Texas Target Communities and HRRC Assoc. Director for Outreach
8. Michelle Meyer, Assistant Professor, LAUP, and Executive Associate Director, HRRC
9. Forster Ndubisi, Professor LAUP
10. Galen Newman, Associate Professor LAUP and Former HRRC Associate Director and Lead for Sustainable Communities initiative.
11. Walter Gillis Peacock, Professor, LAUP and Director, HRRC 2004 to present
12. Carla Prater, Former Associate Director HRRC and Senior Lecture LAUP (retired)
13. George Rogers, Professor LAUP and HRRC Director (2003-2004)

1 We have assumed that these are calendar years, not academic years.
14. Nathanael Rosenheim, HRRC Associate Research Scientist
15. Shannon Van Zandt, Professor and Head, LAUP
16. Sierra Woodruff, Assistant Professor, LAUP
17. Doug Wunneburger, Instructional Associate Professor
18. Yu Xiao, Associate Professor, LAUP
19. Yee Zhu, Administrative Assistant

There are a host of affiliated faculty both inside and outside the college and the university. Nevertheless, to make this task somewhat manageable, I have focused on the core faculty, as defined above.

I. Mission Statement and goals:

The Hazard Reduction and Recovery Center (HRRC) was established at Texas A&M University in 1988. HRRC researchers focus on hazard analysis, emergency preparedness and response, disaster recovery, and hazard mitigation. Researchers study the full range of natural disasters and technological hazards.

HRRC includes the expertise of architects, planners, sociologists, social-psychologists, political scientists, policy analysts, economists, landscape architects, and engineers. The original proposal establishing the HRRC as a University Center was written and submitted to Texas A&M University’s Board of Regents by Philip Berke, who also served as its acting director. Dennis Wenger served as its founding Director from 1989 until the summer of 1997. Michael K. Lindell served as the Director from 1997-2003, George Rogers served as director for 2003-2004, and Walter Gillis Peacock has been the Director since 2004.

The Mission Statement for the Hazard Reduction and Recovery Center is:

- To increase our understanding of the nature and impact of natural and technological hazards upon humans and the physical and built environment in which they live, and to increase our knowledge regarding hazard mitigation, preparedness, response and recovery.
- To enlarge the hazard research community through graduate student training, faculty development, and educational endeavors.
- To disseminate research findings to the research community and to practitioners so they can use this information to mitigate, prepare for, respond to, and recover from disasters.
- To provide assistance and consultation to those state, national, and international agencies charged with responsibility for hazard analysis, emergency preparedness and response, disaster recovery, and hazard mitigation.

More succinctly, our goals are to 1) conduct research, 2) train graduate students and facilitate faculty development, 3) disseminate research to the broader research and practitioner communities, and 4) provide assistance and outreach to the larger community. I believe that our training activities have extended to include undergraduates and post-docs, both of whom we are now including in our research and outreach activities. Through carrying out our mission and addressing these goals, the HRRC has provided an extraordinary value to our primary
department, the department of Landscape Architecture and Urban Planning, the College of Architecture, Texas A&M University, the State of Texas, and our nation. Indeed, the HRRC’s influence extend well beyond our nation to many nations and regions throughout the world.

II. Center’s impact on research.

There are of course many criteria one might employ to illustrate the impacts the HRRC has had on research from 2013-2017. The following illustrates the HRRC’s impact on research by examining: external grant productivity, scholarly output, and citations.

II.A External Grant Productivity.

The core faculty of the Hazard Reduction and Recovery Center has been extraordinarily productive when it comes to generating external grant funding during 2013-2017 period. In total the HRRC core faculty received a total of 48 grants as PIs or Co-PIs between 2013 and 2017. That number includes ten (10) external grants that were in effect beginning in 2013. A detailed listing of these grants can be found on pages 75 to 80 of this report. Table 1 displays the data on total external grant funding broken down into the major funding sources from which the grants were received.

Table 1. Total Grant Funding by Source, 2013-17

<table>
<thead>
<tr>
<th>Source of Funding</th>
<th>Amount of funding</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>3,058,387</td>
<td>38.7%</td>
</tr>
<tr>
<td>Department of Homeland Security</td>
<td>1,398,146</td>
<td>17.7%</td>
</tr>
<tr>
<td>State and Local governments</td>
<td>1,916,197</td>
<td>24.3%</td>
</tr>
<tr>
<td>National Institute for Standards and Technology</td>
<td>785,538</td>
<td>9.9%</td>
</tr>
<tr>
<td>U.S. Army Corp of Engineers/FEMA</td>
<td>385,000</td>
<td>4.9%</td>
</tr>
<tr>
<td>Other Sources</td>
<td>354,502</td>
<td>4.5%</td>
</tr>
<tr>
<td>Totals</td>
<td>7,897,770</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

As can be seen in Table 1, the HRRC’s core faculty have generated approximately 7.9 million dollars in external funding during five-year period beginning in 2013. The sources include Federal agencies and foundations such as the National Science Foundation (NSF), the Department of Homeland Security (DHS), the National Institute for Standards and Technology, and the United States Army’s Corp of Engineers, as well as many State, local and other types of agencies and governmental sources. It is particularly noteworthy that just over $3 million dollars, or nearly 39% of the total funding, has come from one of the most prestigious scientific funding agencies in the United States, the National Science Foundation. The NSF funding is distributed over 13 individual grants. It is also noteworthy that just over $5.6 million, or 71.2%, that funding comes from Federal sources, carrying the highest levels of indirect. These indirect not only fund the research support activities for the University, but also helps fund a host of other research related activities at Texas A&M University.
Table 2. Yearly Grant Funding in Dollars, 2013-2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Existing</th>
<th>New</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>1,722,751</td>
<td>333,145</td>
<td>2,055,896</td>
</tr>
<tr>
<td>2014</td>
<td>1,543,104</td>
<td>1,312,750</td>
<td>2,855,854</td>
</tr>
<tr>
<td>2015</td>
<td>2,121,116</td>
<td>1,632,016</td>
<td>3,753,132</td>
</tr>
<tr>
<td>2016</td>
<td>3,007,429</td>
<td>1,227,793</td>
<td>4,235,222</td>
</tr>
<tr>
<td>2017</td>
<td>2,851,373</td>
<td>1,624,326</td>
<td>4,475,699</td>
</tr>
</tbody>
</table>

Table 2 displays the annual break down of grant funding for each year in terms of existing grants, grants in effect and carried forward from previous years, new grants receive during each year, and the total grant funding in effect for a given year. These data are also displayed in Figure 1. As can be seen in the “New” column in Table 2 and the black bar in Figure 1, the amount of new funding being generated each year has vacillated a good bit, ranging from just over 300k in 2013 to a high of 1.63 million in 2015. However, the total grant dollars (see last column in Table 1 and the red bars in Figure 1) for each year has seen a steady increase over the period. In 2013, there were just over 2 million in grant dollar increasing each year and more than doubling to nearly 4.5 million in 2017.

Figure 1. HRRC Grant Productivity, 2013-2017
While this grant productivity is noteworthy and all have are driven by research and research related issues, there are a number of themes and issue areas reflected in these grants that should be mentioned.

II.B Scholarly Output.

The fact that the HRRC’s core faculty have been able to attract external grant funding from highly prestigious agencies such as the National Science Foundation, speaks well for making the argument that our core faculty are not only actively involved in research, but also, given the peer review process associated with many of these grants, they are being recognized as strong researchers able to design top-tier research programs and projects worthy of funding. However, that is but one metric. To obtain a more complete picture, we have also compiled a listing of published output generated by the core faculty, often in collaboration with their students and other colleagues. This listing includes a variety of scholarly output including books, peer reviewed journal articles and book chapters, paper and poster presentations at various forms of professional meetings, invited research talks, and technical reports or technical/white papers written and made available via a variety of mechanisms. A complete and detailed listing of each of these forms of scholarly output are presented on pages 15 through 54 below. The following provides a summary of these data.

**Figure 2. HRRC Scholarly Output, 2013-2017**

From 2013 through 2017, the HRRC’s core faculty have produced: five (5) books, 155 peer-reviewed journal articles or book chapters, and 88 research reports or technical papers. In addition, they have presented their research in the form of 181 paper or poster presentations at professional meetings and have given 99 invited research talks either as individual talks or as
part of research panels. Figure 2 provides the data on scholarly output for each type by year. There are not any noticeable trends, although there have been a few more peer reviewed journal articles and chapters published in the last two years (2016 and 2017) when compared to earlier years in the 5-year period. These may well reflect the somewhat higher paper presentations earlier in the period, which were later converted to journal articles. On the whole, the Center’s core faculty averaged, 31 peer reviewed journal articles and book chapters, 36 paper/poster presentations, 20 invited research talks, and 18 research/technical reports, each year over this 5-year period.

Even a cursory review of the venues in which journal articles are being published over this period will reflect that the core faculty are indeed publishing in many of the top journals in the planning and landscape architecture, environment and urban studies, and hazards/disasters areas. The following are but some of the examples of the journals for which the core faculty have published in between 2013 and 2017.


The 157 peer-reviewed journal articles and book chapters are an outstanding examples of how HRRC’s research is creating new knowledge that the broader field is recognizing and embracing via acceptance through the peer review process. However, another useful indicator is citations of core faculty’s scholarly output.

**II.C Citation Analysis.**

The degree to which other researchers cite the scholarly output of core faculty in their own scholarly work is also a strong indicator of our research impact on the field. While there are many approaches for undertaking a citation analysis, we utilized Google Scholar, which has been recognized as offering the most citation coverages across all forms of scholarly output including books, articles, chapters, professional papers, research reports, patents, proceedings, etc. More
specifically, we were able to gather overall and yearly Google Scholar citations for 14 of the core faculty\(^2\) who maintain their own Google Scholar pages.

**Figure 3. Yearly Citation Counts, 2011-2018**

There are, of course, considerable variations among the core faculty in their numbers of citations, particularly when considering that we have a couple of stars like Michael Lindell and Phil Berke who have been highly productive for many years, while other core faculty are only beginning their academic careers. When considering total citations across all 14 faculty for which data are available, the total citation count is 37,472. The annual citation counts for from 2011 to 2018 are presented in Figure 3. For the entire eight (8) year period for which we have data, the total citations appear to be steadily increasing, however that is a bit deceptive, if we focus our attention to the 2013-2017 period. During the first 3 years of this 5-year focused period, there is a relative plateau where citations fall between 2,921 and 2,973. Following this relatively stable plateau, the citation counts climb considerably in 2016, to 3,611 and climbs again in 2017, to 3,727. In 2018, the count jumps markedly by nearly 1,000 citations to 4,716. For our key 2013-2017 5-year period, the total citation count is 16,163 for an average of 3,233 citations per year for HRRC core faculty. Interestingly, when comparing the total citation count for this 5-year period and the total count for all 14 faculty for which there are data, just over 43% of all citation counts occurred during the focus 5-year period.

\(^2\) The 14 faculty include: Bardenhagen, Berke, Cooper, Lindell, Meyer, Ndubisi, Newman, Peacock, Rogers, Rosenheim, Van Zandt, Woodruff, Wunneburger, and Xiao.
**A short note on promoting interdisciplinarity in research:** The HRRC is on the forefront of promoting interdisciplinary research in the broader hazard/disaster research community. First, we are inherently interdisciplinary in make-up. Our core faculty have degrees in Planning, Landscape Architecture, Environmental Planning, Engineering, Sociology, and Regional Economics. Second, the HRRC has been leading NSF efforts to promote interdisciplinary research and approaches to addressing hazards research through a series of research workshops. Third, members of the HRRC have also worked closely on an effort to bring a NSF Engineering Research Center to TAMU over the last 5 years. Fourth, our core faculty have assembled interdisciplinary teams made up of social scientists and engineers that have successfully won major grants from NSF. For example, our faculty have been parts of two teams that successfully one CRISP Type 2 Collaborative awards in excess of 1.5 million each. And, finally, we have worked with faculty from Sociology and Statistics to bring a Census Research Data Center here that benefit cross-disciplinary research efforts for researchers from Texas A&M, Rice, Baylor, the University of Texas and other regional universities.

**III. Center’s Impact through Service Activities.**

The Center’s core faculty have made extraordinary impacts on the College, the University, the State itself, as well as its communities and counties, and the larger research community through the great variety of service and service related activities they have undertaken directly, as well as indirect service activities undertaken as part of their research and teaching (service learning) activities. It is simply impossible to discuss each and every type of service impact the HRRC has had in each of these many areas. Indeed, on pages 54 through 60 we identify 144 direct service related activities that have been undertaken by core faculty. Then, on pages 60 to 65, we identify over 60 awards and honors that have been bestowed on our core faculty in recognition of service related activities. And finally, if one examines closely the nature of many of the 48 externally funded research grants (see pages 75 through 80) undertaken by core faculty, it quickly becomes apparent that many of these have a direct service component. In fact, one of the unique features of many of our research activities is that we work closely with the community to gather data and our findings are quickly shared with local communities or have as their goal the development of policies and programs that will make the community more disaster resilient and sustainable.

The following provides some brief and very incomplete examples of direct and indirect service activities undertaken by some of the HRRC’s Core Faculty – they are a remarkable group.

- Bardenhagen has developed online and classroom training activities for the Department of Interior in general and the National Park Service in particular helping Parks identify vulnerable areas and develop policies to address these vulnerabilities. In addition, his service learning activities address mitigation activities throughout the Texas coast.
- Berke serves on innumerable editor boards, professional councils, advisory boards and expert panels helping national, state and local governments in broad based resiliency planning. He is also a major player helping shape the planning profession’s future and the nature of how the research community helps shape that future.
- Bierling serves on a host of state, local, and regional mitigation, emergency services, hazards materials and transportation committees. In addition, he is very active in helping
coordinate and review transportation research related to the National Transportation Research Board. And most importantly, his research activities directly help Local Emergency Planning Committees recognize and develop strategies to address hazard material vulnerabilities and risks associated with transportation in their communities.

- Cooper is president of the Texas Rural Leadership program and serves on the board of directors for a variety of organizations such as the Bill Anderson Fund that seeks to enhance and expand minority involvement and participation in the broader hazards/disaster research community. He is leading efforts to ensure that TAMU’s research impacts and facilitates resiliency planning particularly in low-resourced and minority communities throughout Texas.

- Lindell has been a long-time editor of one of the top disaster journals, serves on the a great variety of board for other journals, and is actively involved in local mitigation, recovery and evacuation planning. His research has been the foundation of evacuation planning throughout the Texas coast for decades.

- Masterson is conducting and involved in workshops and significant time intensive planning efforts helping local communities throughout Texas and the nation in broad based sustainability and resiliency planning. She is particularly focused on developing the planning integration techniques through the resiliency scored card. She is a critical player in bring the classroom to the community and enabling students to learn through service about how to shape resilient and sustainable communities. Her work is award winning.

- Meyer is the personification of a participatory action researcher. She has engaged in extensive study of early and longer-term recovery activities in communities throughout Texas and through that involvement made a difference in how local organizations engage in these activities. Her involvement has spurred legislative activity to promote recovery planning in Texas.

- Newman is a man on fire. He is involved in professional activities in both planning and landscape architecture, and fully engages the student in all of his studio courses in service learning activities. One will quickly lose count of the numbers of awards the he and his students/classes have won in helping communities design and plan for a more sustainable and resilient future.

- Peacock has played an important role in bring a Federal Statistical Research Data Center to TAMU expanding research opportunities for faculty, post-docs, and graduate students here and at universities throughout the region. His research has also helped shape evacuation and mitigation policies and plans for cities and counties throughout the Texas coast. He has also supported Van Zandt and Meyers in their efforts to shape recovery planning and programs.

- Rogers has served in many planning accreditation board site visit teams helping improve planning departments throughout the nation. His research has helped local communities in the hazard material planning and help better understand the potential economic and social consequences of water shortages and fluctuations due to climate changes.

- Van Zandt has become a major force for long-term housing recovery policy and programs in the State of Texas and the Nation. She is serving on boards, need assessment committees, professional advisory committees, and on expert panels helping shape programs, policies, and funding related to post disaster housing and housing recovery.
Again, it must be said that the above barely scratches the surface in terms of capturing the many important service activities the HRRC’s core faculty have undertaken related to service. Indeed, even the listings under service, awards, and research funding only partially captures the depth and breadth of what the Center’s core faculty have accomplished between 2013 and 2017.

IV. Center’s impact on Teaching.

The Hazard Reduction and Recovery Center has been responsible for managing two graduate certificates; the certificates in Transportation Planning and Environmental Hazard Management (EHM). Additionally, the Center’s core faculty have worked closely with the Department of Landscape Architecture and Urban Planning to teach the primary courses in the EHM certificate program. These courses are: PLAN 649: Organizational and Community Response to Crises and Disasters, PLAN 650: Disaster Response Planning, PLAN 647: Disaster Recovery and Hazard Mitigation, and PLAN 616: Analyzing Risk/Hazard and Public Policy. With changes in our faculty over the last few year it has become difficult to teach all of these courses. Nevertheless, with the support of LAUP, who has hired Dr. Jason Moates, we have been able to cover most of these courses.

Figure 4 presents the data on the numbers of Transportation Planning and Environmental Hazards Management Certificates awarded from 2013 to 2017. In total 45 certificates were awarded, with 29 for Transportation Planning and 16 for Environmental Hazard Management. The highest number of certificates awarded was in 2017, when 16 were awarded, 15 of these were for Transportation Planning. In general, of the two programs, the Transportation Planning Certificate is most popular, with an average of nearly six (6) being awarded annually. The annual average during this period for the Environmental Hazard Management Certificate awards was
just over three (3). A complete listing of all student awarded graduate certificates is available on pages 65 to 67 of this report.

Commitment to graduate education in the form of chairing and graduating both Masters and PhD students is yet another way in which faculty create opportunities for and support graduate education. It is one thing for faculty to focus on research, but if they are not willing to commit to the critical part of a graduate education – chairing masters and PhD committees to completion – then they have not fulfilled the full commitment toward graduate programs and students. Equally important can be simply serving on graduate committees. The data on graduate committee participation is presented in Figure 4. Taken as a whole, over this five-year period, core HRRC faculty chaired and graduated 24 PhD students from the Department of Landscape Architecture and Urban Planning’s Urban and Regional Science PhD program and 91 students from its Masters of Urban Planning and the Masters of Landscape Architecture programs. In addition, core faculty have served on the committees of 60 students that graduated with Masters or PhDs from other departments. A total of 176 graduate student committees have included HRRC Core Fellows. 3

A note on promoting diversity: The Center has sought to promote diversity in many ways, particularly with respect to graduate students, which will be tomorrow's faculty and researchers. Our current cadre of 18 PhD students includes, 5 males and 13 females, 10 international students from countries as diverse as China, Korea, Brazil, Columbia, Taiwan, and India, additionally 2 of our students of Hispanic origin and 2 are African American.

Most proudly, over the past five years, members of the HRRC Core Team were instrumental in the growth and leadership of the William Averette Anderson Fund (BAF). Dr. Anderson was an African American and longtime disaster researcher. He was also a program officer at the

---

3 Of significant note, this number of completed degrees does not include a few faculty members who did not include graduate students on their CVs (e.g., Mike Lindell).
National Science Foundation and with the National Academies of Science and Engineering for many years. With his passing a few years ago, the BAF was established with a mission “to expand the number of minority professionals in the field of disaster and hazard research and practice.” It is the first nonprofit focused on diversity in hazard and disaster education. John Cooper, HRRC Core Fellow, was a founding and highly active Board Member of the BAF. The HRRC has supported several of our former students and graduates, Dr. Fayola Jacobs (now at the University of Minnesota) and Dr. Marcus Hendricks (now at the University of Maryland) as BAF fellows and organizers. We are now supporting two of our newer African American PhD students, Joy Semien and Jennifer Blanks, as BAF fellows, assisting them with travel and support to attend BAF events.

In addition to working with graduate student, Mark Fosset (PI) and Walt Peacock (co-PI) were able to obtaining funding from the National Science Foundation to establish a Summer Research Experience for Undergraduates Institute from 2014-7, entitled: Studies in Social Inequality and Social Vulnerability. Employing this grant and matching funds from the Colleges’ of Architecture and Liberal Arts, and from the Departments’ of Landscape Architecture and Urban Planning and Sociology we were able to bring in students from all over the United States for advance training in broad base social science research and to expose them to the possibilities of graduate school. These student were able to work with HRRC core faculty on their research and travel to the Natural Hazard Center’s Summer workshop in Broomfield, Colorado to present their work. The program targeted first generation and underrepresented groups (female and minorities) to provide them with better understanding of research and the opportunities of attending graduate school.

REU students, Summer 2015
During the summer of 2015 we brought in 10 students. Of the two students most interested in planning, one MUP program in 2017 and another student was admitted to the planning program at the University of Colorado in Denver.
During the summer of 2016 we brought in 10 students again from all over the country and TAMU. Of the three students most interested in planning, two of the students entered our MUP program this fall and the other planning student was admitted and attended UNC. One of the MUP students is now graduating and applying to our PhD program. The summer of 2017, was the final year for our REU Summer institute and we brought in eight students. Of the three students interested in planning, two of the students have applied to our MUP program and one applying to programs in other parts of the country.

V. Center goals and aspiration for the next 5 years.

1) Continue doing what we do well and expand on these
   Research funding
   Graduate Student Education/mentoring
   Faculty Development

2) Improve on those areas where we have been lagging
   Redesign the Environmental Hazard Management Certificate
   Expand fellow program
   Expand undergraduate research involvement

3) Explore new opportunities
   Develop web-based applications for research
   Develop web-based applications for outreach/service activities
   Expand interdisciplinary research opportunities
   Expand and promote Federal Statistical Research Data Center based research
Scholarly Output by HRRC Core Faculty

The following provides a listing of research output in the form of books, peer-reviewed journal articles and book chapters, academic conference presentations, invited presentations and panel discussions, and research reports/technical papers/public writing. HRRC Core Faculty are indicated in bold. Student co-authors are often indicated with an *, though some students are likely missed as not all faculty identify students within their CVs.

Books (5)


Peer Reviewed Articles and Book Chapters by Year

2017 (n=39)


2016 (n=43)


32. Noh, Youngre and George Rogers, 2016, “Recovery of value of natural amenities: From oil fields to nature” *Land Use Policy*, 57:11-22. DOI: 10.1016/j.landusepol.2016.05.010*


2015 (n=17)


2014 (n=29)


**Academic Presentations/ Posters by HRRC Fellows**

2017 (n=35)


27. Reja, M.Y., Brody, S., Highfield, W. & Newman, G. (Apr., 2017). Understanding the Notion between Resiliency and Recovery through a Spatial-Temporal Analysis of Section 404 Wetland Alteration Permits before and after Hurricane Ike. ICNHR 2017: 19th International Conference on Natural Hazard Risk Reduction – Boston, MA**This talk received the 2017 ICNHR Best Paper Award
32. Woodruff, Sierra. 2017. ND-GAIN’s Urban Adaptation Assessment: Climate Change and Social Equity. A workshop on Adapting to Climate Change: Actions, Implementations, and Outcomes, South Bend, IN. Presentation.

2016 (n=26)


2015 (n=32)

1. **Bardenhagen, E., Rodiek, S., Nejati, A.,** (2015) Applying the Seniors’ Outdoor Survey (SOS) in Practice: An Observational Tool for Assessing Outdoor Environments at Long-Term Care Settings. Council of Educators in Landscape Architecture, Manhattan KS.


3. Finn, Donovan, **Yu Xiao**, Divya Chandrasekar. 2015. “Rebuilding, recovery and resilience: Innovations in post-disaster planning after Sandy”, Presented at the 55th Association of Collegiate Schools of Planning (ACSP) Annual Conference, October 22-25, Houston, TX


8. Lee, Jee Young; **Bame S.** (2015) Community factors associated with unmet housing needs of
owners vs. renters during disaster: Case study of Hurricanes Katrina and Rita.
(Presentation at American Collegiate Schools of Planning, Houston, TX: 10/22-25/2015).


2014 (n=52)


30. **Park, Han* (presenter), and S. Van Zandt.** Affordable Housing Program Users and Their Accessibility to Public Transportation and Walkability. Association of Collegiate Schools of Planning National Conference. Philadelphia, PA, October 30-November 2, 2014.


2013 (n=36)


20. **Meyer, Michelle.** “Social Capital and Collective Efficacy: Developing Disaster-specific Measures.” International Research Committee on Disasters Researchers Meeting, Denver, CO.


**This talk received the 2013 Lighting Talk Award**


34. **Xiao, Yu** and **Walter Gillis Peacock**. 2013. “Hazard Mitigation, Preparedness, and Physical Damage to Businesses in Disasters” Presented at the APA Texas Chapter Conference, October 2-5, Galveston, Texas.


**Invited Presentations and Panel Participation**

2017 (n=24)

1. **Berke, P.** 2017. Resilience and Climate Change Cooperative Project, March, Dept. of City & Regional Planning, University of North Carolina, Chapel Hill, NC

2. **Berke, P.** 2017. The Next Generation of Sustainability Planning, February, Dept. of City & Regional Planning, University of Pennsylvania, Philadelphia

3. **Berke, P.** 2017. Resilience and Climate Change Cooperative Project, March, College of Architecture, University of Texas, Austin


15. **Newman, G.** (March. 2017) ‘*How Research Informs Resilient Design.*’ University of Maryland Dept. of Plant Science and Landscape Architecture

16. **Newman, G.** (Feb. 2017) ‘*Climate Change Armor.*’ Institute for Sustainable Communities, Texas A&M University


22. **Van Zandt, S.** Panelist, Community Planning Assistance Team: Belize, American Planning Association National Conference, New York, NY, April 5-8, 2017


2016 (n=18)

1. **Berke, P.** 2016. Institutionalizing Resilience Planning, December, Rockefeller Foundation 100 Resilient Cities Workshop, Urban Institute, Washington, DC


17. Xiao, Yu. 2016. Panel Discussion on Smart Cities, Resilient Cities, and Sustainable Cities, 10th Annual IACP Conference, Beijing, China (June 30 to July 3).
18. Xiao, Yu. 2016. “Understanding post-disaster community recovery: the linkage between households and businesses.” Presented at the Business School Department of Property Seminar, University of Auckland, New Zealand (August 1)

2015 (n=13)

1. **Bardenhagen, E.** Lecture - Garden Club of America (Sept. 2015). “Introduction to Urban Design.” Texas Master Gardener Course III, Landscape Design. Annual professional course on Landscape Design, George Bush Library and Conference Center, College Station, TX

2. **Bardenhagen, E.** Panel Discussion Organizer and Moderator – Emerging Approaches in Community Design: Integrating People and Place through Research and Practice. April 2015, College of Architecture, Texas A&M University.


2014 (n=25)


12. **Masterson, J.H.** (2014, April). Pecha Kucha: Gonzales, TX. Presented at the annual conference hosted by the Sustainable Communities Year Program (SCYP), Eugene, OR.

13. **Masterson, J.H.** (2014, April). Developing Partnerships. Panelist at the annual conference hosted by the Sustainable Communities Year Program (SCYP), Eugene, OR.


22. Fossett, Mark; Poston, Dudley; *Fox, Amber; **Rosenheim, Nathanael.** Research using Restricted Data in Census Research Data Centers. Applied Demography Conference, San Antonio, TX, January 8-10


2013 (n=19)


9. **S. Van Zandt.** 2013. Poor and Minority Impacts from Hurricane Ike. Texas Association of
Community Development Corporations, Annual Policy Summit, Austin, TX, September 24, 2013.
10. **S. Van Zandt.** 2013. Poor and Minority Impacts from Hurricane Ike. 3rd International Conference on Urban Disaster Reduction (3ICUDR) workshop (emerging researchers session), Boulder CO, July 11, 2013.
13. **Peacock, W.G.,** Association of Collegiate Schools of Planning Administrator’s Conference. Presentation: Disaster Research Centers in Planning Programs: The Hazards Reduction and Recovery Center. The Ohio State University, Columbus, Ohio; November 2013.
17. **Xiao, Yu.** 2013. “Integrated Community Recovery after Natural Disasters.” Presented at Chongqing University, Chongqing, China (May 29)
18. **Xiao, Yu.** 2013. Panel Discussion on “Emergency Management in China.” 38th Annual Natural Hazards Research and Applications Workshop, Broomfield, Colorado (July 13 to July 1
19. **Xiao, Yu.** 2013. Panel Discussion on “Disaster Recovery” Texas APA Conference 2013, Galveston, Texas (October 2 to October 5)

**Technical Reports/White Papers/Public Writings**

2017 (n=12)
3. **Bardenhagen, E.** Proposal to develop site and recreational programming, site selection and initial concepts for Mt. Sharon monument near Custer SD. This project aims to create a carved mountain sculpture and American history recreation site as a regional to national tourist amenity and an American historical monument.
4. **Bardenhagen, E.,** Karmarkar, K., Masterson, J. ($11,400) Summer and Fall 2017. Wayfinding and Signage Master Plan, La Grange, TX.


---

2016 (n=11)


Planning Committee and Texas Division of Emergency Management. Texas A&M Transportation Institute, College Station, Texas.


2015 (n=12)


2014 (n=29)
1. Bardenhagen, E, Wang, Y. ($3,000) Summer 2014. The College Station “Fun for All Playground” concept development and visualization. College Station, TX.


2013 (n=24)


Emergency Management and the Williamson County Local Emergency Planning Committee.


Service Related Activities by HRRC Core Faculty\(^4\) (n=144)

1. **Bame, S.,** Alliance for Information & Referral Systems: Advisory Committee for Technology Development 2013-14
2. **Bame, S.,** Academy of Health Services Research & Policy: Member 1984-present
3. **Bardenhagen, E.** 2011 – 2016 All-Hazards Resource Advisor Online Training Curriculum
4. **Bardenhagen, E.** National Level Cross-Agency training hosted on the U.S. Department of the Interior’s DOI Learn online training portal.
5. **Berke, P.** Editorial Board, International Review of Civil Engineering, 2011-present
8. **Berke, P.** 2017-18: Advisory Committee, Academic Hazards and Disaster Research Centers Coalition, Natural Hazards Center, University Colorado
9. **Berke, P.** 2017-18: Advisory Committee, NSF supported study, Social Science Extreme Events Reconnaissance Platform, Natural Hazards Center, University Colorado
10. **Berke, P.** 2017: External Review Committee, Doctoral Program in Community & Regional Planning, University of Texas-Austin
11. **Berke, P.** 2015-18: Member, Comprehensive Plan Standards Recognition Program Working Group, American Planning Association, Chicago
12. **Berke, P.** 2016-20: Advisory Board of the Urban Institute for Rockefeller Global 100 Resilient Cities Program.
14. **Berke, P.** 2015-17: Member, Best Article Award Committee, Journal of the American Planning Association

\(^4\) Excludes article review for journals. Excludes LAUP departmental service. College, university, discipline, and external public service are included.
17. **Berke, P.** 2013-14, 2014-16: Member, ACSP John Friedman Book Award Committee for Planning Sustainability
20. **Berke, P.** 2013-14: Member, Committee on Carolina's Climate Resilience, National Oceanic and Atmospheric Administration
23. **Berke, P.** Member, Strengthening Democracy Grand Challenge Committee, College of Liberal Arts, 2015-16
24. **Berke, P.** Appointed by Office of VP for Research to lead 8 centers and institutes under the TAMU Climate and Environment Grand Challenge
25. **Berke, P.** Director, Institute of Sustainable Communities at TAMU College Station, 2016-present
26. **Berke, P.** Member, Administrative Council, Texas A&M Hagler Institute for Advanced Study, 2016-2019
27. **Berke, P.** Member, Faculty Advisory Bd, A&M-Ocean University of China (OUC) Collaborative, 2017-18.
28. **Berke, P.** Member, Advisory Committee, Water-Energy-Food Nexus Network, 2017-present
29. **Berke, P.** University Leader for Environment & Climate Change, Center and Institute Directors Council, TAMU College Station, 2017-present
30. **Berke, P.** Member, LAUP Head search committee, 2015-16
31. **Berke, P.** Member, Center for Health Systems and Design Director search committee, 2015-16
32. **Berke, P.** Member, LAUP Head search committee, 2017-18
34. **Berling, D.** Representative (elected), Council of Principal Investigators, Texas A&M University, 2017–2020.
35. **Berling, D.** Member, Subcommittee on Enhancing Interdisciplinary Research, Council of Principal Investigators, Texas A&M University, 2018–2019.
36. **Berling, D.** Member (agency representative), State Hazard Mitigation Team, Texas Division of Emergency Management, Texas Department of Public Safety, 2018–Present.


44. **Berling, D.** Member, Standing Committee on Transportation of Hazardous Materials AT040, 2014–Present.

45. **Cooper, J.** President - Texas Rural Leadership Program (TRLP). TRLP focuses on increasing leadership capacity in rural and underserved communities across Texas.

46. **Cooper, J.** Chair – Partnership for Community Outreach Committee, Texas A&M Department of Landscape Architecture and Urban Planning

47. **Cooper, J.** Board of Directors – U.S. Endowment for Forestry and Communities

48. **Cooper, J.** Board of Directors – The William Averette Anderson Fund for Hazard and Disaster Mitigation Education and Research

49. **Cooper, J.T., Van Zandt, S.S., & Masterson, J.H.** (2014, August). *Assessing Vulnerabilities to Hazards*. Training presentation at the South Central Climate Center at the University of Oklahoma, Norman, OK.


51. **Lindell, M.** Member—Seattle Disaster Recovery Planning Committee, 2014.

52. **Lindell, M.** Editorial Board Member—Journal of Contingencies and Crisis Management, 2017-present.

53. **Meyer, M.** Grant Proposal Reviewer, National Science Foundation

54. **Meyer, M.** 2015–present ISA International Research Committee on Disasters (RC39) Annual Meeting Organizing Committee Chair


58. **Newman, G.** Vice President of Research and Creative Scholarship Council of Educators in Landscape Architecture (CELA), 2018-present

59. **Newman, G.** Co-chair (with Merrill, J.), Landscape Planning and Ecology Track, Council of Educators in Landscape Architecture (CELA), 2016-2018
60. **Newman, G.** Chair, Landscape Planning and Ecology Track, Council of Educators in Landscape Architecture (CELA), 2015-2016
61. **Newman, G.** Co-chair (with Charlene Lebleu), Landscape Planning and Ecology Track, Council of Educators in Landscape Architecture (CELA), 2014-2015
62. **Newman, G.** Member, Roster of Visiting Evaluators (ROVE) – Canadian Society of Landscape Architects (CSLA): Landscape Architecture Accreditation Council (LAAC), 2016-present
63. **Newman, G.** Editor, *Landscape Research Record* (2018-present); v. 8 & vol. 9
66. **Newman, G.** Chair – Council of Educators in Landscape Architecture (CELA) Standing Committee on Research (2018-present)
67. **Newman, G.** Chair – California Landscape Architecture Student Scholarship (CLASS) Fund Grant Committee (2018-present)
68. **Newman, G.** Member - Council of Educators in Landscape Architecture (CELA) Committee on Communication, Outreach and Publications (2018-present)
69. **Newman, G.** Member - Council of Educators in Landscape Architecture (CELA) Executive Committee (2018-present)
70. **Newman, G.** Member - Council of Educators in Landscape Architecture (CELA) Executive Director Search Committee (2018-2019)
71. **Newman, G.** CELA Representative – Landscape Architecture Foundation (2018-present)
72. **Newman, G.** CELA Representative – American Society of Landscape Architects (ASLA) Professional Awards Jury: Research Category (2018-present)
73. **Newman, G.** Texas Citizen Planner Program, Member (2016-present)
74. **Newman, G.** Judge - Houston-Galveston Area Council Parks and Natural Areas (PNA) Awards, (Spring 2018), H-GAC.
75. **Newman, G.** Youth Adventure Program - Professor (Summer 2013, 2014), Texas A&M University.
76. **Newman, G.** American Society of Adaptation Professionals Emerging Leaders Mentorship Program Co-Chair (2017-Present)
77. **Peacock, W.** President, International Research Committee on Disasters, International Sociological Association, 2011 to 2015
78. **Peacock, W.** Reviewer, 2014-2016, National Science Foundation
79. **Peacock, W.** Elected Member, Texas A&M Council of Principal Investigators, 2013-2014.
80. **Peacock, W.** Member, College Research and Interdisciplinary Council, College of Architecture, Texas A&M University (TAMU), 2004-present.
81. **Peacock, W.** Member, College of Architecture Promotion and Tenure Committee, Texas A&M University, 2004-2007 and 2009-present.
82. **Rogers, G.** City of West, Texas vs. CF Industries Sales, LLC, et al.; In The 170th Judicial District Court of McLennan County, Texas, Cause Number: 2013-2476-4, Deposition March 27, 2015.
83. **Rogers, G.** University, Committee on Academic Freedom, Responsibility and Tenure
84. **Rogers, G.** Planning Accreditation Board, Site Visit Team, Chair, April 2017
85. **Rogers, G.** Planning Accreditation Board, Site Visit Team, Member, February, 2016
86. Rogers, G. Planning Accreditation Board, Site Visit Team, Member, February, 2014
87. Rogers, G. College of Architecture, Full Professor Advisory Committee, 2018
88. Rogers, G. College of Architecture, Professorship and Awards Committee, 2017
89. Rosenheim, N. Committee Member, College of Architecture Information Technology Council, 2016-2018
90. Rosenheim, N. Coordinator, Brazos Locavores, a grass roots group that connects local eaters with local producers, 2009-Present
92. Van Zandt, S. Housing Needs Assessment/Market Analysis, City of Bryan Community Development, Spring 2015 (PLAN 656)
94. Van Zandt, S. Evaluation Designer, Community Loan Center of Texas, Texas Association of Community Development Corporations/Texas Appleseed, August 2013-present (unfunded).
95. Van Zandt, S. Housing Needs Assessment, City of College Station, Spring 2014 (PLAN 656)
96. Van Zandt, S. Visioning, Nolanville and Dickinson TX, Fall 2014 (PLAN 665)
100. Van Zandt, S. Reviewer, Oregon Sea Grant Program, FY 2015-2016
101. Van Zandt, S. Reviewer, Program to Enhance Scholarly and Creative Activities (PESCA), Texas A&M University (internal grant program), 2010-2013
103. Van Zandt, S. Member, Sun Belt Steering Committee, Kinder Institute for Urban Research, Rice University, 2016-present.
104. Van Zandt, S. Member, Advisory Committee, Texas Sea Grant, 2016-2019.
105. Van Zandt, S. Board Member, Texas Low-Income Housing Information Service, 2014-present.
106. Van Zandt, S. Member, Community Loan Center of Texas Advisory Committee, Texas Association of Community Development Corporations, 2014-present.
107. Van Zandt, S. Member, Texas Coastal Citizen Planner Advisory Board, Texas Sea Grant, 2013-present.
108. Van Zandt, S. Member, Fair Housing and Equity Workgroup, Houston-Galveston Area Council, 2012-2014.
109. Van Zandt, S. Regional Representative, Region 3, Governing Board, Association of Collegiate Schools of Planning, Fall 2016 to present
110. Van Zandt, S. Chair, Awards Committee (Ad-hoc), Governing Board, Association of Collegiate Schools of Planning, Spring 2017 to present
111. Van Zandt, S. Chair, University Programs Committee, and Member, Executive Committee, Hazard Mitigation and Disaster Recovery Division, American Planning Association, Summer 2016-present
112. Van Zandt, S. Member, Association of Collegiate Schools of Planning (ACSP) Review and Appraisal Committee (reviews activities, programs, ways and means to help sent the Presidential agenda and to recommend policy or organizational changes), 2015-2016 and 2010-2011.
113. Van Zandt, S. Track co-chair, Housing and Community Development Track, Association of Collegiate Schools of Planning, 2015-2017
114. Van Zandt, S. Reviewer, National Research Council Committee Report (on Community-based Flood Insurance Options), Spring 2015
115. Van Zandt, S. Member, Advisory Panel for Special Issue on Housing + Transportation, Housing Policy Debate, 2014-2015
116. Van Zandt, S. Member, Planners Training Service Working Group, American Planning Association, 2013-present
117. Van Zandt, S. Board Member, Texas Chapter of the American Planning Association (faculty representative), 2008-2009, 2015-2016
118. Van Zandt, S. Member, University Press Faculty Advisory Committee. Texas A&M University, College Station, 2012-2015.
119. Van Zandt, S. Member, Search Committee, Coastal Planning Specialist, Texas Sea Grant, Texas A&M
120. Van Zandt, S. Member, College Research & Interdisciplinary Council, College of Architecture, 2013-present.
121. Van Zandt, S. Chair, Planning Advisory Committee, LAUP, Texas A&M University, 2010-present
122. Van Zandt, S. Co-Chair, Staff Search Committee (Office Associate), CHUD/HRRC/ISCC, March 2014
123. Van Zandt, S. Member, Staff Search Committee (Administrative Assistant), LAUP, January 2014
125. Van Zandt, S. Member, Conference Planning Committee, Texas Chapter of the American Planning Association Annual Conference (Program sub-committee), 2013
126. Xiao, Y. Judge, 3-Minute Paper Contest, Texas A&M University (11/2/2016)
127. Xiao, Y. LAUP Representative, College Research and Interdisciplinary Council, Texas A&M University (March 2013- August 2017)
129. Xiao, Y. Proposal review for RESTORE Act Center of Excellence for Louisiana, 2017
130. Xiao, Y. Proposal review for Washington Sea Grant, 2015
131. Xiao, Y. Proposal review for National Science Foundation, 2015, 2018
132. Xiao, Y. Panel review for National Science Foundation, 2014
134. **Xiao, Y.** Reviewer for conference abstracts. The 9th International Association for China Planning (IACP) Conference, June 19-21, 2015, Chongqing, China.
137. **Xiao, Y.** Co-chaired the 9th International Association for China Planning (IACP) Conference, June 19-21, 2015, Chongqing, China.
138. **Xiao, Y.** Chaired Session 1.7 on Climate Change and Land Use of the IACP’s 10th annual conference in Beijing China, June 30-July 3, 2016.
139. **Xiao, Y.** Chaired Session 5.4 on Smart Cities, Resilient Cities, and Sustainable Cities of the IACP’s 10th annual conference in Beijing China, June 30-July 3, 2016.
140. **Xiao, Y.** Chaired Session 5.5 on Planning and Disaster of the IACP’s 7th annual conference in Shanghai, China, June 29-July 1, 2013.
141. **Xiao, Y.** Chaired Session 2E on Urban Economics II of the IACP’s 6th annual conference in Wuhan, China, June 17-19, 2012.
142. **Xiao, Y.** Panelist (2012- current), the Learning From Earthquakes (LFE) panel of the Earthquake Engineering Research Institute (EERI). The goal of the panel is to develop a resiliency framework to guide data collection of the EERI’s LFE and related programs.
143. **Xiao, Y.** Panelist (2014- current), Business Resilience Case Study for South Napa Earthquake, EERI.
144. **Xiao, Y.** Member, EERI Reconnaissance on 5.0 earthquake in Cushing, Oklahoma occurred on Nov 6, 2016. Reconnaissance took place from November 14-16, 2016.

**Awards by HRRC Core Faculty or their Students (2013-2017) (n=62)**

2. **Bardenhagen, E.** Distinguished Achievement Award, College Level. Texas A&M Association of Former Students. Fall 2017. In recognition and appreciation of dedication, interest, enthusiasm, and attitude in accomplishing the assigned mission in teaching.
5. **Bardenhagen, E.** Yixun Zhang, Texas ASLA Honor Award 2015. Coastal Storm Surge Protection for Galveston Texas. MLA final project committee member.


11. **Berke, P.** 2013. Faculty Award for Excellence in Doctoral Student Mentoring, UNC Graduate School

12. **Masterson, J.H.** 2017 Liberty County Strategic Plan – Texas Chapter of the American Planning Association Current Planning Award

13. **Masterson, J.H.** 2017 Grimes County Thoroughfare Plan – Texas Chapter of the American Planning Association Student Project Award Honorable mention

14. **Masterson, J.H.** 2017 Sunnyside Neighborhood Reclaiming Vacancies – Texas Chapter of the American Planning Association Student Project Award

15. **Masterson, J.H.** 2015 La Grange Housing Needs Assessment – Texas Chapter of the American Planning Association Student Project Award Honorable mention

16. **Masterson, J.H.** STAR Performer Award, January 2016. Received for exemplary staff achievements at Texas A&M University.

17. **Masterson, J.H.** 2015 APA Texas Chapter Student Project Award.

18. **Meyer, Michelle.** Samuel H. Prince Dissertation Award (2010-2014), International Sociological Association International Research Committee on Disasters


20. **Ndubisi, F.**, 2016 President Elect, College of Fellows, Council of Educators in Landscape Architecture

21. **Ndubisi, F.**, 2016 Distinguished Member Award, Texas American Society of Landscape Architecture

22. **Ndubisi, F.**, 2016 Outstanding Educator Award, Council of Educators in Landscape Architecture

23. **Ndubisi, F.**, 2015 Notable Alumni, University of Guelph, School of Environmental Design and Rural Planning

25. **Newman, G.** 2017 CELA “Excellence in Research and Creative Scholarship Award (Junior Level),” National research award, Council of Educators in Landscape Architecture


28. **Newman, G.** 2016 CELA/CLASS Annual Research Award for ‘*Smart Shrinkage: Design for the Un-developing Landscape.*’ Joint national research award from the Council of Educators in Landscape Architecture (CELA) and the California Landscape Architecture Student Scholarship Fund (CLASS)


32. **Newman, G.** 2015 TAMU Inaugural Arts & Humanities Fellow, Texas A&M University

33. **Newman, G.** 2013-2014 TAMU Service Learning Faculty Fellow, Texas A&M University


35. **Newman, G.** 2017 National ASLA “Honor Award: Analysis and Planning Category.” Faculty Advisor for Student Design Project, American Society of Landscape Architects, “*Climate Change Armor.*” Student: Zixu Qiao

https://www.asla.org/2017studentawards/333351.html


46. Newman, G. 2016 “TX-ASLA Merit Award,” Faculty Advisor for Student Design Project. American Society of Landscape Architects, Texas Chapter (TX-ASLA). “Grey to
Green: For Healthy Communities.” Student Team: Tamara Hajovsky, Courtney Kuehner, & Yamile Garcia, Clayton Blount

47. Newman, G. 2016 “TX-ASLA Merit Award,” Faculty Co-Advisor for Student Design Project. American Society of Landscape Architects, Texas Chapter (TX-ASLA). “Multimodal Transportation Systems and Transit Oriented Development: Concepts for Bryan-College Station, Texas and Texas A&M University.” Student Team: Qiushuo Li, Yuxian Li & Xin Shu

48. Newman, G. 2015 “TX-ASLA Merit Award,” Faculty Co-Advisor for Student Design. American Society of Landscape Architects, Texas Chapter (TX-ASLA). “Performance in Practice – Hands-on LID Education Infrastructure at the TTI Sediment and Erosion Laboratory: College Station, Texas.” Student Team: Yixun Zhang, Siman Ning, David Danielson, Zhihuang Li, Jinglin Zhao, Xiaotian Su, Yucheng Wang, Bitong Yang & Yao Yue


55. Peacock, W. Outstanding Mentor Award, 2018, awarded by the Department of Landscape Architecture and Urban Planning’s Student Advisory Council.

56. Peacock, W. Distinguished Achievement Award in Research, Texas A&M University, April 2014, sponsored by the Association of Former Students, Texas A&M University.

57. Peacock, W. Sandy and Bryan Mitchell Master Builder Endowed Chair, Texas A&M University, August 2012 to present.
59. **Van Zandt, Shannon.** Nicole & Kevin Youngblood Endowed Professorship in Residential Land Development, College of Architecture, Texas A&M University, 3-year term beginning 2015.
60. **Van Zandt, Shannon.** Roy L. Dockery Endowed Professorship in Housing and Homelessness, College of Architecture, Texas A&M University, 3-year term June 2012-2015.
61. **Woodruff, S.** Dean’s Distinguished Dissertation Award (2017, $1000)
62. **Woodruff, S.** Graduate Education Advancement Board Impact Award (2017, $500)

**Certificates Awarded (n=51)**

Environmental Hazard Management: (n=16)

<table>
<thead>
<tr>
<th>Name</th>
<th>Date Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hao-Che Wu</td>
<td>Dec - 2013</td>
</tr>
<tr>
<td>2 Kevin A. Crosby</td>
<td>May - 2013</td>
</tr>
<tr>
<td>3 Y. (Ge) Gurt</td>
<td>May - 2013</td>
</tr>
<tr>
<td>4 Michael L. Lopez</td>
<td>May - 2013</td>
</tr>
<tr>
<td>5 Jaimie Hicks Masterson</td>
<td>May - 2013</td>
</tr>
<tr>
<td>6 Maria Watson</td>
<td>May - 2014</td>
</tr>
<tr>
<td>7 Kai Wu</td>
<td>May - 2014</td>
</tr>
<tr>
<td>8 Patrick Doty</td>
<td>Aug - 2014</td>
</tr>
<tr>
<td>9 Sara Hamideh</td>
<td>Aug - 2015</td>
</tr>
<tr>
<td>10 Robert McCharen</td>
<td>Dec - 2015</td>
</tr>
<tr>
<td>11 Jeewasmi Thapa</td>
<td>May - 2016</td>
</tr>
<tr>
<td>12 Vera Abou Shakra</td>
<td>May - 2016</td>
</tr>
<tr>
<td>13 Tiffany Cousins</td>
<td>May - 2016</td>
</tr>
<tr>
<td>14 Nur Hamidah</td>
<td>Aug - 2016</td>
</tr>
<tr>
<td>15 Hung-Lung Wei</td>
<td>Aug - 2016</td>
</tr>
</tbody>
</table>
16  Kathleen DeGennaro  Aug - 2017

Transportation: (n=29)

<table>
<thead>
<tr>
<th>Name</th>
<th>Date Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nair Angelica Barrios Perez</td>
<td>May - 2013</td>
</tr>
<tr>
<td>Boya Dai</td>
<td>May - 2013</td>
</tr>
<tr>
<td>Todd William Hansen</td>
<td>May - 2013</td>
</tr>
<tr>
<td>Allison Elizabeth Hyde</td>
<td>May - 2013</td>
</tr>
<tr>
<td>Michael W. Martin</td>
<td>May - 2013</td>
</tr>
<tr>
<td>Yue Zhang</td>
<td>Aug - 2015</td>
</tr>
<tr>
<td>Lisa Green</td>
<td>Aug - 2015</td>
</tr>
<tr>
<td>Patrick Patterson</td>
<td>Aug - 2015</td>
</tr>
<tr>
<td>Sepeedeh Rastegar-Pana</td>
<td>Aug - 2015</td>
</tr>
<tr>
<td>Xi Chen</td>
<td>Dec - 2015</td>
</tr>
<tr>
<td>Atrin Khodadai Fard</td>
<td>May - 2016</td>
</tr>
<tr>
<td>Hilary Page</td>
<td>May - 2016</td>
</tr>
<tr>
<td>Thiago Coelho de Oliveira</td>
<td>May - 2016</td>
</tr>
<tr>
<td>Jinuk Hwang</td>
<td>Aug - 2016</td>
</tr>
<tr>
<td>Pranjal Dixit</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Sai Praneeth Kalakuntla</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Gopika Nair</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Wesley Shimek</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Gargi Singh</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Shibiya Sulfi kar Sabu</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Yige Tang</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Siquing Yi</td>
<td>May - 2017</td>
</tr>
<tr>
<td>Qiao Zhao</td>
<td>May - 2017</td>
</tr>
</tbody>
</table>
24  Tara Ramani  May - 2017  
25  Xinhe Ruan  May - 2017  
26  Saima Musharrat  Aug - 2017  
27  Qikun Chen  Aug - 2017  
28  Sanjana Jasti  Dec - 2017  
29  Kyuhyun Lee  Dec - 2017  

**Student Graduate Committees Chair/Co-Chair/Member**

PhD URSC (n = 25)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Student</th>
<th>Graduation Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 PhD</td>
<td>Joshua Gunn</td>
<td>2013</td>
</tr>
<tr>
<td>2 PhD</td>
<td>Junping Xu</td>
<td>2013</td>
</tr>
<tr>
<td>3 PhD</td>
<td>Minjie Xu</td>
<td>2013</td>
</tr>
<tr>
<td>4 PhD</td>
<td>Ayoung Woo</td>
<td>2014</td>
</tr>
<tr>
<td>5 PhD</td>
<td>Hyun Kim</td>
<td>2014</td>
</tr>
<tr>
<td>6 PhD</td>
<td>Jee Young Lee</td>
<td>2014</td>
</tr>
<tr>
<td>7 PhD</td>
<td>Shakil Kashem</td>
<td>2014</td>
</tr>
<tr>
<td>8 PhD</td>
<td>Shih-Kai Huang</td>
<td>2014</td>
</tr>
<tr>
<td>9 PhD</td>
<td>Young Re Noh</td>
<td>2014</td>
</tr>
<tr>
<td>10 PhD</td>
<td>Yunmi Park</td>
<td>2014</td>
</tr>
<tr>
<td>11 PhD</td>
<td>Jae Woong Won</td>
<td>2015</td>
</tr>
<tr>
<td>12 PhD</td>
<td>Myungshik Choi</td>
<td>2015</td>
</tr>
<tr>
<td>13 PhD</td>
<td>Sara Hamideh</td>
<td>2015</td>
</tr>
<tr>
<td>14 PhD</td>
<td>Boah Kim</td>
<td>2016</td>
</tr>
<tr>
<td>15 PhD</td>
<td>Hung-Lung Wei</td>
<td>2016</td>
</tr>
<tr>
<td>16 PhD</td>
<td>Hyekyung Lee</td>
<td>2016</td>
</tr>
</tbody>
</table>
17  PhD  Nathanael Proctor-Rosenheim  2016
18  PhD  Paula Lorente  2016
19  PhD  Wei Pan  2016
20  PhD  Yoonjeong Lee  2016
21  PhD  Han Park  2017
22  PhD  Jackyung Lee  2017
23  PhD  Marcus Hendricks  2017
24  PhD  Phillip Lasley  2017

Masters Degree MUP or MLA (n = 94)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MUP  Chris Lazaro</td>
</tr>
<tr>
<td>2</td>
<td>MUP  Dongjin Han</td>
</tr>
<tr>
<td>3</td>
<td>MUP  Jaimie Masterson</td>
</tr>
<tr>
<td>4</td>
<td>MUP  Koly Sengupta</td>
</tr>
<tr>
<td>5</td>
<td>MUP  Lauren Hovde</td>
</tr>
<tr>
<td>6</td>
<td>MUP  Stephany Caraballo</td>
</tr>
<tr>
<td>7</td>
<td>MUP  Tho Tran</td>
</tr>
<tr>
<td>8</td>
<td>MUP  Walter M. Peacock</td>
</tr>
<tr>
<td>9</td>
<td>MUP  Yichi Liu</td>
</tr>
<tr>
<td>10</td>
<td>MUP  Cristina Odenborg</td>
</tr>
<tr>
<td>11</td>
<td>MUP  Haotian Zhong</td>
</tr>
<tr>
<td>12</td>
<td>MUP  Kyujae Lee</td>
</tr>
<tr>
<td>13</td>
<td>MUP  Maria Watson</td>
</tr>
<tr>
<td>14</td>
<td>MUP  Mark Bombek</td>
</tr>
<tr>
<td>15</td>
<td>MUP  Nakeisha Robinson</td>
</tr>
<tr>
<td>16</td>
<td>MUP  Travis Witt</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>----</td>
</tr>
<tr>
<td>17</td>
<td>MUP</td>
</tr>
<tr>
<td>18</td>
<td>MUP</td>
</tr>
<tr>
<td>19</td>
<td>MUP</td>
</tr>
<tr>
<td>20</td>
<td>MUP</td>
</tr>
<tr>
<td>21</td>
<td>MUP</td>
</tr>
<tr>
<td>22</td>
<td>MUP</td>
</tr>
<tr>
<td>23</td>
<td>MLA</td>
</tr>
<tr>
<td>24</td>
<td>MUP</td>
</tr>
<tr>
<td>25</td>
<td>MUP</td>
</tr>
<tr>
<td>26</td>
<td>MUP</td>
</tr>
<tr>
<td>27</td>
<td>MUP</td>
</tr>
<tr>
<td>28</td>
<td>MLA</td>
</tr>
<tr>
<td>29</td>
<td>MUP</td>
</tr>
<tr>
<td>30</td>
<td>MUP</td>
</tr>
<tr>
<td>31</td>
<td>MUP</td>
</tr>
<tr>
<td>32</td>
<td>MLA</td>
</tr>
<tr>
<td>33</td>
<td>MLA</td>
</tr>
<tr>
<td>34</td>
<td>MUP</td>
</tr>
<tr>
<td>35</td>
<td>MLA</td>
</tr>
<tr>
<td>36</td>
<td>MUP</td>
</tr>
<tr>
<td>37</td>
<td>MUP</td>
</tr>
<tr>
<td>38</td>
<td>MLA</td>
</tr>
<tr>
<td>39</td>
<td>MLA</td>
</tr>
<tr>
<td>40</td>
<td>MLA</td>
</tr>
<tr>
<td>41</td>
<td>MLPD</td>
</tr>
<tr>
<td>42</td>
<td>MUP</td>
</tr>
<tr>
<td>43</td>
<td>MUP</td>
</tr>
</tbody>
</table>
44  MUP  Fathima Raza
45  MLA  Heijing Feng
46  MLA  Ixchel Granada
47  MUP  Jeewasmi Thapa
48  MLA  Jeffrey Slater
49  MLA  Jing Lei
50  MLA  Jingwen Lu
51  MLA  Jixing Liu
52  MLA  Joomee Lee
53  MUP  Kai Wu
54  MUP  Kate de Gennaro
55  MLA  Kendall Raabe
56  MUP  Kevin Crosby
57  MUP  Lindsay Doremus
58  MLA  Lu Xia
59  MLA  Mengfei Bao
60  MLA  Mindong Xie
61  MUP  Morgan Wilson
62  MUP  Nur Hamidah
63  MUP  Pat Morrison Kultgen
64  MUP  Patrick Doty
65  MLA  Philip Roberts
66  MLA  Qian Wan
67  MLA  Qiushou Li
68  MUP  Reja Yousuf
69  MLA  Ruisi Guo
70  MUP  Saima Musharrat
<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>MUP</td>
<td>Sepeedeh Panah</td>
</tr>
<tr>
<td>72</td>
<td>MLA</td>
<td>Siman Ning</td>
</tr>
<tr>
<td>73</td>
<td>MLA</td>
<td>Tiantian Lyu</td>
</tr>
<tr>
<td>74</td>
<td>MUP</td>
<td>Tiffany Cousins</td>
</tr>
<tr>
<td>75</td>
<td>MUP</td>
<td>Vera Abushakra</td>
</tr>
<tr>
<td>76</td>
<td>MUP</td>
<td>Vrushari Sathaye</td>
</tr>
<tr>
<td>77</td>
<td>MLA</td>
<td>Wei Shi</td>
</tr>
<tr>
<td>78</td>
<td>MLA</td>
<td>Xiao Jin</td>
</tr>
<tr>
<td>79</td>
<td>MLA</td>
<td>Xiatian Su</td>
</tr>
<tr>
<td>80</td>
<td>MLA</td>
<td>Xin Zhu</td>
</tr>
<tr>
<td>81</td>
<td>MLA</td>
<td>Yangdi Wang</td>
</tr>
<tr>
<td>82</td>
<td>MLA</td>
<td>Yiman Zhang</td>
</tr>
<tr>
<td>83</td>
<td>MLA</td>
<td>Yimeng Zhang</td>
</tr>
<tr>
<td>84</td>
<td>MLA</td>
<td>Yixun Zhang</td>
</tr>
<tr>
<td>85</td>
<td>MUP</td>
<td>Yousuf Reja</td>
</tr>
<tr>
<td>86</td>
<td>MLA</td>
<td>Yuan Ren</td>
</tr>
<tr>
<td>87</td>
<td>MLA</td>
<td>Yuxian Li</td>
</tr>
<tr>
<td>88</td>
<td>MLA</td>
<td>Zehao Wang</td>
</tr>
<tr>
<td>89</td>
<td>MLA</td>
<td>Zhihuang Li</td>
</tr>
<tr>
<td>90</td>
<td>MLA</td>
<td>Zhixing Yu</td>
</tr>
<tr>
<td>91</td>
<td>MLA</td>
<td>Zixu Qiao</td>
</tr>
<tr>
<td>92</td>
<td>MUP</td>
<td>Xuejiao Wang</td>
</tr>
<tr>
<td>93</td>
<td>MUP</td>
<td>Gargi Singh</td>
</tr>
<tr>
<td>94</td>
<td>MUP</td>
<td>Qazi Zahra</td>
</tr>
</tbody>
</table>
### PhD and Masters Students Other Departments (n = 60)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MSENG</td>
<td>Aina Abbasgholipour</td>
</tr>
<tr>
<td>3 Arch</td>
<td>Amanda Schneider</td>
</tr>
<tr>
<td>4 M.Arch</td>
<td>Amber Smoot</td>
</tr>
<tr>
<td>5 M.Arch</td>
<td>Andrew Ilges</td>
</tr>
<tr>
<td>6 M.Arch</td>
<td>Ashley Johnston</td>
</tr>
<tr>
<td>7 M.Arch</td>
<td>AVi Patel</td>
</tr>
<tr>
<td>8 M.Arch</td>
<td>Behzad Yaghmaei</td>
</tr>
<tr>
<td>9 M.Arch</td>
<td>Celso Rojas</td>
</tr>
<tr>
<td>10 M.Arch</td>
<td>Chen Yi</td>
</tr>
<tr>
<td>11 M.Arch</td>
<td>Chetna Shaktawat</td>
</tr>
<tr>
<td>12 M.Arch</td>
<td>Chloe Mengers</td>
</tr>
<tr>
<td>13 PhD. Arch</td>
<td>Cris Cooper</td>
</tr>
<tr>
<td>14 PhD. Arch</td>
<td>Duygu Albostan</td>
</tr>
<tr>
<td>15 Ph.D. SOCI</td>
<td>Gabriel Amaro</td>
</tr>
<tr>
<td>16 M.Arch</td>
<td>Gaoyoung Ye</td>
</tr>
<tr>
<td>17 Ph.D. GEOG</td>
<td>Gina Lane</td>
</tr>
<tr>
<td>18 MLPD</td>
<td>Heather Smith</td>
</tr>
<tr>
<td>19 M.Arch</td>
<td>Hillary Brown</td>
</tr>
<tr>
<td>20 PhD parks/rec</td>
<td>Jao ho Lee</td>
</tr>
<tr>
<td>21 M. Ag Comm</td>
<td>Jolene Kollman</td>
</tr>
<tr>
<td>22 Ph.D. Arch</td>
<td>Joo Hyun Lee</td>
</tr>
<tr>
<td>23 M.Arch</td>
<td>Jungmin Kim</td>
</tr>
<tr>
<td>24 M.Arch</td>
<td>Kasi Svoboda Kasi</td>
</tr>
<tr>
<td>25 engineering</td>
<td>Kasper Stoeten</td>
</tr>
<tr>
<td>26 M.Arch</td>
<td>Keith Messick</td>
</tr>
</tbody>
</table>
M.Arch Leigh Goris
M.Arch Leslie Ammons
M.Arch Lisa Valdivia
M.Arch Madison Van Pelt
M.Arch Meaghan Gilliam
M.Arch Minkeun Sim
M.Arch Miray Oktem
PhD Oceanography Mohammad Almukaimi
M.Arch Nathanielle Sybico
M.Arch Niloofar Hosseini
M.Arch Peixin Dong
M.Arch Qianqian Zhang
M.Arch Rajvi Patel
M. Arch Roxanne Gutierrez
PhD. Arch Saiful Islam
M.Arch Sakshi Ghandi
M.Arch Sarah Claus
Ph.D. Arch Seyeon Lee
M.Arch Sreedevi Soryanarayana
M. Arch Stephanie Guariglia
M.Arch Tian Wang
M.Arch Tom Ham
PhD parks/rec Trang Le
M.Arch TRey Rice
M.Arch Will Richard
M.Arch Winklemann, Eric
M.Arch Xi Zhao
<table>
<thead>
<tr>
<th>Page</th>
<th>Degree</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>M.Arch</td>
<td>Yimen Zhang</td>
</tr>
<tr>
<td>55</td>
<td>Ph.D. RPTS</td>
<td>Ying Xu</td>
</tr>
<tr>
<td>56</td>
<td>M.Arch</td>
<td>Yoonjeong Lee</td>
</tr>
<tr>
<td>57</td>
<td>M.Arch</td>
<td>Yue Wang</td>
</tr>
<tr>
<td>58</td>
<td>MSLD</td>
<td>Yujing Lu</td>
</tr>
<tr>
<td>59</td>
<td>M.Arch</td>
<td>Yuting Song</td>
</tr>
<tr>
<td>60</td>
<td>M.Arch</td>
<td>Zhen Zhang</td>
</tr>
<tr>
<td>Award Title</td>
<td>Sponsor</td>
<td>PI</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>--------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Texas Census Research Data Center (txcrdc)</td>
<td>NSF</td>
<td>Fossett, Mark</td>
</tr>
<tr>
<td>Rapid: Immediate Behavioral Response To Earthquakes In New Zealand and Japan</td>
<td>NSF</td>
<td>Lindell, Michael</td>
</tr>
<tr>
<td>Examining the 100-Year Floodplain As A Metric of Risk, Loss, and Household</td>
<td>NSF</td>
<td>Lindell, Michael</td>
</tr>
<tr>
<td>Adjustment Award Number: M1201175</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials - Commodity Flow Surveys for Local Emergency Planning</td>
<td>Texas Department Public Safety</td>
<td>Bierling, David</td>
</tr>
<tr>
<td>Award Number: M1200923</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials - Commodity Flow Surveys for Local Emergency Planning</td>
<td>Texas Department Public Safety</td>
<td>Bierling, David</td>
</tr>
<tr>
<td>Award Number: M1200923</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials - Commodity Flow Surveys for Local Emergency Planning</td>
<td>Texas Department Public Safety</td>
<td>Bierling, David</td>
</tr>
<tr>
<td>Award Number: M1200923</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral Study, Valley Hurricane Evacuation Study, Willacy, Cameron, and</td>
<td>DOD-Army-Corps of Engineers</td>
<td>Lindell, Michael</td>
</tr>
<tr>
<td>Hidalgo Counties, Texas Award Number: M1200874</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work Order NO. 6532 Under Glo Contract NO. 12-446-001 for Internship Services Award Number: M1200094</td>
<td>Texas General Land Office</td>
<td>Van Zandt, Shannon</td>
</tr>
<tr>
<td>The Adoption and Utilization of Hazard Mitigation Practices By Jurisdictions Along Gulf and Atlantic Coasts Award Number: M1300851</td>
<td>NSF</td>
<td>Peacock, Walter</td>
</tr>
<tr>
<td>#</td>
<td>Project Title</td>
<td>Awarding Body</td>
</tr>
<tr>
<td>----</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>10</td>
<td>Cgv: Large: Collaborative Research: Modeling, Display, and Understanding Uncertainty In Simulations for Policy Decision</td>
<td>NSF</td>
</tr>
<tr>
<td></td>
<td>Award Number: M1300767</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Barrier Design and Landscape Integration for Galveston's West End Award</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td></td>
<td>Number: M1400197</td>
<td>at Galveston</td>
</tr>
<tr>
<td>12</td>
<td>Surge Protection for the Galveston Bay Region - Advancing the Ike Dike Concept to Protect the University of Texas Medical Branch and its Associated Communities</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td></td>
<td>Award Number: M1402705</td>
<td>at Galveston</td>
</tr>
<tr>
<td>13</td>
<td>Collaborative Research: Interdependency in Decision Making, A Holistic Approach to Understanding Community Recovery from Catastrophes</td>
<td>NSF</td>
</tr>
<tr>
<td></td>
<td>Award Number: M1403292</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>RAPID: Technological versus Natural Disasters: Consequences for Early Recovery Planning and Decision-Making at the Community and Household Level Award Number: M1303157</td>
<td>NSF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Persistent Volcanic Crises in the USA: From Precursors to Resilience Award</td>
<td>University of Hawaii</td>
</tr>
<tr>
<td></td>
<td>Number: M1400783</td>
<td>- Manoa</td>
</tr>
<tr>
<td>16</td>
<td>All Hazards Resource Advisor Online Training Curriculum Development Award</td>
<td>DOI-National Park</td>
</tr>
<tr>
<td></td>
<td>Number: M1100615</td>
<td>Service</td>
</tr>
<tr>
<td>17</td>
<td>Effects of Pre-Disaster Recovery Plans on Post-Disaster Recovery among Socially Vulnerable Populations Award Number: M1402184</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University HSC</td>
</tr>
<tr>
<td>18</td>
<td>REU Site: Studies in Social Inequality and Social Vulnerability Award Number:</td>
<td>NSF</td>
</tr>
<tr>
<td></td>
<td>M1401873</td>
<td></td>
</tr>
<tr>
<td>Project Title</td>
<td>Award Number</td>
<td>Responsible Party</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Houston Ship Channel Area Truck Traffic and Network Utilization Assessment</td>
<td>M1402303</td>
<td>Port of Houston</td>
</tr>
<tr>
<td>Local Resiliency Planning Scorecard and Enhancements to &quot;Beyond the Basics&quot;</td>
<td>M1501847</td>
<td>UNC-DHS</td>
</tr>
<tr>
<td>Hazard Mitigation Planning Website</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Assistance Hazardous Materials Routing Designations</td>
<td>M1500569</td>
<td>City of Austin</td>
</tr>
<tr>
<td>Structure of Long-Term Disaster Recovery: Organizational Roles and Collaboration in Six Cities</td>
<td>M1402740</td>
<td>NSF</td>
</tr>
<tr>
<td>Conduct Vulnerability Analysis of Potential Storm Surge Effects on Evacuation Zones and Transportation Routes</td>
<td>M1500355</td>
<td>Cooperative Ecosystem Studies Unit</td>
</tr>
<tr>
<td>Hazardous Materials - Commodity Flow Surveys for Local Emergency Planning</td>
<td>M1200923</td>
<td>Texas Department</td>
</tr>
<tr>
<td>Award Number: M1200923</td>
<td></td>
<td>Public Safety</td>
</tr>
<tr>
<td>Hazardous Materials Transport Data Collection for Baytown, Texas</td>
<td>M1501657</td>
<td>Baytown LEPC</td>
</tr>
<tr>
<td>Award Number: M1501657</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center for Risk-Based Community Resilience Planning</td>
<td>M1502290</td>
<td>Colorado State</td>
</tr>
<tr>
<td>Award Number: M1502290</td>
<td></td>
<td>University</td>
</tr>
<tr>
<td>Building Capacity Across Texas: Enhancing Quality of Life and Place within</td>
<td>M1503750</td>
<td>Texas A&amp;M University System</td>
</tr>
<tr>
<td>Vulnerable and Disadvantaged Communities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Title</td>
<td>Award Number</td>
<td>Institution or Organization</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>29 Emergency Planning for Chemical Transportation Hazards</td>
<td>M1600444</td>
<td>Texas Department Public Safety</td>
</tr>
<tr>
<td>PIRE-Coastal Flood Risk Reduction Program: Integrated, Multi-Scale Approaches for Understanding How to Reduce Vulnerability to Damaging Events</td>
<td>M1600610</td>
<td>Texas A&amp;M University at Galveston</td>
</tr>
<tr>
<td>30 DHS S&amp;T Coastal Resilience Center of Excellence - Center Lead</td>
<td>M1601327</td>
<td>University of North Carolina</td>
</tr>
<tr>
<td>31 DHS S&amp;T Coastal Resilience Center of Excellence - Center Lead</td>
<td>M1601327</td>
<td>University of North Carolina</td>
</tr>
<tr>
<td>32 Hazardous Materials Commodity Flow Study and Shipment Analysis</td>
<td>M1601820</td>
<td>Corpus Christi/Nueces Co LEPC</td>
</tr>
<tr>
<td>33 Hazardous Materials Transportation Risk Management Plan</td>
<td>M1601683</td>
<td>La Porte, Morgan's Pt (LEPC)</td>
</tr>
<tr>
<td>34 Smart Shrinkage: Design for the Un-Developing Landscape</td>
<td>M1601838</td>
<td>Calif LandArch Stu Scholarship Fd</td>
</tr>
<tr>
<td>35 Stronger Economies Together (SET)</td>
<td>M1701530</td>
<td>Texas A&amp;M Agrilife Extension Service</td>
</tr>
<tr>
<td>36 CRISP Type 2/Collaborative Research: Scalable Decision Model to Achieve Local and Regional Resilience of Interdependent Critical Infrastructure Systems and Communities.</td>
<td>M1603307</td>
<td>NSF</td>
</tr>
<tr>
<td>Project Title</td>
<td>Award Number</td>
<td>Sponsor</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>-------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>38</strong> EAGER - Citizen Science for Infrastructure Monitoring at the Neighborhood Level**</td>
<td>M1603302</td>
<td>NSF</td>
</tr>
<tr>
<td><strong>39</strong> CPR 01: Texas LEPC Handbook/Primer and LEPC Outreach Award Number: M1700744</td>
<td></td>
<td>Texas Department Public Safety</td>
</tr>
<tr>
<td><strong>40</strong> La Porte, Texas Tier II Facility Geospatial Database and Hazard Analysis Award Number: M1702940</td>
<td></td>
<td>La Porte, Morgan's Pt (LEPC)</td>
</tr>
<tr>
<td><strong>41</strong> DHS S&amp;T Coastal Resilience Center of Excellence-Center Lead Award Number: M1802221</td>
<td></td>
<td>UNC - Chapel Hill</td>
</tr>
<tr>
<td><strong>42</strong> Parker County, Texas Tier II Facility Geospatial Database and Hazard Analysis Award Number: M1703279</td>
<td></td>
<td>Parker County</td>
</tr>
<tr>
<td><strong>43</strong> Comprehensive Tools and Models for Addressing Exposure to Mixtures During Environmental Emergency-Related Contamination Events Award Number: M1702959</td>
<td></td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td><strong>44</strong> Early-Career Research Fellowship - Award Year 2017 Award Number: M1702987</td>
<td></td>
<td>National Academy of Sciences</td>
</tr>
<tr>
<td><strong>45</strong> RAPID: Critical Infrastructure Disruption and the Food Distribution Network: The Implications for Food Security Following a Natural Disaster Award Number: M1800345</td>
<td></td>
<td>NSF</td>
</tr>
<tr>
<td><strong>46</strong> RAPID: Assessment of Risks and Vulnerability in Coupled Human-Physical Networks of Houston’s Flood Protection, Emergency Response and Transportation Infrastructure in Harvey Award Number: M1800406</td>
<td></td>
<td>NSF</td>
</tr>
<tr>
<td>#</td>
<td>Project Title</td>
<td>Award Number</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>47</td>
<td>Scalable Way to Improve Urban Environmental Efforts</td>
<td>M1800557</td>
</tr>
<tr>
<td>48</td>
<td>CPR 02: Local Response Capabilities Assessment for HAZMAT Transport Incidents</td>
<td>M1801627</td>
</tr>
<tr>
<td></td>
<td>Total:</td>
<td></td>
</tr>
</tbody>
</table>