SUMMARY REPORT  
Community Engagement of the Clinical and Translational Science Institute of Southeast Wisconsin

SPECIFIC AIMS

The Medical College of Wisconsin is dedicated to leadership and excellence through Community Engagement as one of its missions. For the Clinical and Translational Science Institute of Southeast Wisconsin (CTSI), the specific aims of the Community Engagement Key Function (CEKF) are designed to overcome barriers to community engagement in research. Our Community Engagement efforts are to serve as vehicles for meaningful engagement through fostered bi-directional communication and learning between communities and academics.

- **Specific Aim 1.** Engaging communities as Scientific Citizens by increasing scientific literacy regarding the benefits of research.
- **Specific Aim 2.** Engaging research investigators as Citizen Scientists by improving community engagement strategies and competencies through faculty development, skill-building and training in community-engaged scholarship and community-based participatory research.

INFRASTRUCTURE

A. **Core Team:** Department of Family and Community Medicine

Director: Syed Ahmed MD, DrPH

Faculty: Zeno Franco PhD (0.8 FTE)  
David Nelson PhD (0.5 FTE)

Staff: Anne Kissack MPH, RD – Program Manager  
Mia DeFino MS – Program Coordinator  
Shari Hagedorn – Program Coordinator

B. **Advisors**

Our CEKF has been uniquely engaged with faculty leadership and citizen advisors since the inception of the grant. CTSI’s Citizen’s Advisory Council (CAC) Co-Chairs are Mr. Ricardo Diaz, Executive Director from the United Community Center and Terry Brandenburg from MCW Institute for Health and Society. The CAC is actively involved in developing strategies for community involvement in the various aspects of clinical and translational research. Members provide leadership and strategic guidance in:

- setting research priorities as they emerge through the CTSI
- developing and revising public participation programs and partnerships to support the translational of research into the community

Our faculty-based Leadership Team and Citizen’s Advisory Council have convened regularly to provide input on and perspective for the ongoing and new projects of the CEKF. CTSI CEKF recently reviewed with these advisors the 2013 Institute of Medicine’s Report on the CTSA Programs a wealth of input and direction for strategic planning in 2014 was discussed. We are pleased to learn that the IOM recommends similar efforts with a CAC.

Citizen’s Advisory Council and Leadership Team Representatives

<table>
<thead>
<tr>
<th>Terry Brandenburg, Co-Chair</th>
<th>Marisa Stanley</th>
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<tbody>
<tr>
<td>Director of the Division of Education, MCW</td>
<td>Epidemiologist City of Milwaukee Health Department</td>
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<td>Ricardo Diaz, Co-Chair</td>
<td>Kim Pemble</td>
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<tr>
<td>Executive Director</td>
<td>Corporate Director, IS Operations and Technical Services Children’s Hospital of Wisconsin</td>
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<td>Ann Bachrach</td>
<td>Kathleen “Katie” Pritchard</td>
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<td>Executive Director</td>
<td>President and CEO Planning Council for Health and Human Services</td>
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<td>Anthony McHenry</td>
<td>Tony Shields</td>
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<td>Assistant Executive Director</td>
<td>Executive Director United Neighborhood Centers of Milwaukee (UNCOM)</td>
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<td>Silver Spring Neighborhood Center</td>
<td>David Whelan/Molly Garwood</td>
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<tr>
<td>Richard Cox</td>
<td>Director of Quality Children’s Service Society of Wisconsin</td>
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<tr>
<td>Executive Director Neighborhood House</td>
<td>Tim Herman</td>
</tr>
<tr>
<td>Paula Ryner</td>
<td>Director of the Center for BioMolecular Modeling, Milwaukee School of Engineering</td>
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<tr>
<td>Professor and Associate Dean, Graduate Studies and Research, University of Wisconsin-Milwaukee</td>
<td>Syed M. Ahmed, Chair</td>
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<tr>
<td>Senior Associate Dean Community Engagement, MCW</td>
<td>Jeanne Hossenlopp</td>
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<tr>
<td>CTSI CEKF</td>
<td>Vice Provost for Research and Dean of the Graduate School, Marquette University</td>
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<td>John Meurer</td>
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<td></td>
<td>Director of the Institute for Health and Society, MCW</td>
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<td>Michelle Smith-Beckley</td>
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<td>Program Coordinator Healthy Wisconsin Partnership Program, MCW</td>
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<td></td>
<td>Jeff Whittle</td>
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<td></td>
<td>Associate Professor Clement J. Zablocki VA Medical Center and MCW</td>
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<td></td>
<td>Mia DeFino</td>
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<td>Program Coordinator Department of Family and Community Medicine, MCW</td>
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<td>Elaine Drew</td>
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<td>Assistant Professor Department of Family and Community Medicine, MCW</td>
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<td>Christina Eldridge</td>
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<td>Instructor Department of Family and Community Medicine, MCW</td>
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<td>David Nelson</td>
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<td></td>
<td>Assistant Professor Department of Family and Community Medicine, MCW</td>
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LEVERAGE
CEKF has put tremendous effort towards leveraging our faculty’s experience and knowledge for additional funding to expand our program and the capacity of relationships with community based organizations. Advancing the art and science of Community Engagement in Research has also been of high priority for the team. New community-academic (C-A) partnerships have been created through relationship building with investigators across the translational continuum. In many cases, existing C-A partnerships have transformed with the infusion of T0-T4 academics. We anticipate learning a wealth from the transformation of CEnR practice with this expansion of C-A research investigators. The CEKF team, has in the past several years, submitted proposals to HWPP for translational research which includes community partners and CTSI trans-disciplinary academic research teams.

- CTSI CEKF was granted a Pilot and Collaborative award through the CTSI for a community-academic partnership project titled “mPeer”. The project is in collaboration with the Department of Computer Science at Marquette University, VA Hospital, and the community partner, DryHootch which focuses on serving the needs of veterans “who have survived the war, survive the peace”.
- CTSI CEKF is innovating with a new research team in Waukesha County called Diabetes: Working Wellness in Waukesha- Together (DW3T). This is the first project where our faculty engaged in a community-academic partnership is utilizing the REDCap software at CTSI for a longitudinal, community-based research study. Community investigators have driven the development of the data collection tools and input efforts.
- CTSI CEKF recently learned of a new award through a collaborative proposal submission with the Bioinformatics Key Function (lead) and multiple other academic medical centers in the Great Plains/Midwest. This is the first Patient’s Centered Outcomes Research Institute (PCORI) grant our team has secure and is intended to build the clinical database infrastructure for multi-institutional research on patient health records.
- The CEKF has submitted proposals to large national funding mechanisms including the National Institutes for Health (NIH), National Science Foundation (NSF), Agency for Healthcare Research and Quality (AHRQ), Veterans Affairs (VA) and the Department of Defense (DOD). Reviewed applications with positive and feasible suggested revisions and comments are under consideration for resubmission include:
  - CTSI CEKF built a team of community and academic partners which spanned the public health setting, basic science research, and community engaged research. This NSF proposal, for a basic science post-doctoral fellowship, infused with CEnR, is focused on the intersection of genomics, ethics, and community.
  - CTSI CEKF Leadership Team Faculty submitted an exploratory/development grant in collaboration with the Archdiocese of Milwaukee, Padre Pio Clinic and Marquette University’s Computer Science Department to develop an electronic tool for school emergencies related to Food Allergy Reactions and Anaphylaxis.

Figure 1. The following chart shows a comparison in institutional/community representation in CEKF research proposals from 2012 to 2013.
Table 1: Awarded and Unfunded Grant Proposals by Funding Source and Proposal Title. The following table reflects the awarded and unfunded research proposals applied since April 2010.

<table>
<thead>
<tr>
<th>Awarded Grant Proposal Funding</th>
<th>Amount</th>
<th>Length</th>
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<tbody>
<tr>
<td>Advancing Healthier Wisconsin-Advancing Community-Academic Partnerships for Translational Research: Scientific Citizens and Citizen Scientists</td>
<td>$1,659,180</td>
<td>5 yrs</td>
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<tr>
<td>Michigan Institute for Clinical and Health Research- Ethics Training Pilot Grant</td>
<td>$6,000</td>
<td>0.5 yr</td>
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<td>CTSI Pilot mPeer: Mobile Detection of High Risk Behavior in Veterans - a Sociotechnical Systems Approach</td>
<td>$49,997</td>
<td>1 yr</td>
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<tr>
<td>HWPP DryHootch iPeer: A social &amp; Technical Support Program for Veteran Mental Health</td>
<td>$749,797</td>
<td>5 yrs</td>
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<tr>
<td>HWPP Diabetes: Working Wellness in Waukesha - Together (DW3T)</td>
<td>$192,985</td>
<td>2 yrs</td>
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<tr>
<td>HWPP Healthy Environments, Health Choices, Healthier People (HHH)</td>
<td>$750,000</td>
<td>5 yrs</td>
</tr>
<tr>
<td>HWPP Growing Your Futures: A Curriculum for Person and Community Change</td>
<td>$30,000</td>
<td>1 yr</td>
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<tr>
<td>HWPP Promoting Healthy Body Weight among African American Women through a Community Participatory Model</td>
<td>$200,000</td>
<td>2 yrs</td>
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<tr>
<td>HWPP Scaling Up Milwaukee Urban Agriculture and Nutrition through a Community/Science Institute</td>
<td>$199,963</td>
<td>2 yrs</td>
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<tr>
<td>HWPP Teleophthalmology to Improve Eye Health among Latinos</td>
<td>$200,000</td>
<td>2 yrs</td>
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<tr>
<td>Patient Centered Outcomes Research Institute (PCORI)- Greater Plains Collaborative Clinical Data Research Network</td>
<td>$20,000</td>
<td>2 yrs</td>
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<tr>
<td><strong>Awarded Subtotal</strong></td>
<td><strong>$ 4,068,207</strong></td>
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<table>
<thead>
<tr>
<th>Unfunded Grant Proposals</th>
<th>Amount</th>
<th>Length</th>
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<tr>
<td>NSF Science Awareness, Genomics, and Ethics: SAGE Communities</td>
<td>$500,000</td>
<td>2 yrs</td>
</tr>
<tr>
<td>NIH/AHRQ mHealth for School Health Emergencies: A Mobile e-Tool for Allergy and Anaphylaxis</td>
<td>$299,700</td>
<td>2 yrs</td>
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<tr>
<td>Veteran’s Affairs Innovation Initiative</td>
<td>$200,460</td>
<td>2 yrs</td>
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<tr>
<td>NIH/DOD DryHootch Stone Cold Sober</td>
<td>$496,097</td>
<td>3 yrs</td>
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<td>HWPP Facilitating Research Ethics Review among Community Partners, Researchers, and Institutions</td>
<td>$600,000</td>
<td>5 yrs</td>
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<td>HWPP Move to Improve</td>
<td>$200,000</td>
<td>2 yrs</td>
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<tr>
<td>HWPP Polk County Partnership for Children’s Mental Health</td>
<td>$200,000</td>
<td>2 yrs</td>
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<tr>
<td>HWPP Healthy Kids, Healthy Communities Milwaukee: Operationalizing Strategies to Reduce Childhood Obesity</td>
<td>$750,000</td>
<td>5 yrs</td>
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<tr>
<td><strong>Unfunded Subtotal</strong></td>
<td><strong>$ 3,246,257</strong></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$9,084,179</strong></td>
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Figure 2. The following graph shows the funding proposal trends for the CEKF, both applied and funded research.

![Community Engagement Key Function Leverage](image)

COLLABORATION

A. CTSI Administration

- **Webpage**: One of our newer approaches to reach key audiences is developing video materials and the foundations of a website that will be community-oriented describing different perspectives on the research continuum between scientists and citizens. In response to past favorable input on the Science Cafes from internal and external advisors, we have also place significant effort and resources in videotaping the spring 2013 series and have short clips that will be available for viewing online. The CEKF developed collaboration with docUWM, a documentary media center in UWM’s Peck School of the Arts Film Department, to tape and
edit webpage ready clips of the spring series. In addition to the videos, CEKF has gained community input on a website that will also include an installment of a local version of Share Center which is a web-based tool for community-academic networking and resource sharing.

- **Metrics Database Waypoint:** Our team is working with a team of staff at the CTSI to develop a database for collection and reporting on key metrics that will best describe the success and opportunities for change within our own Key Function, the CTSI infrastructure and institutions, and enhance collection of key indicators that can serve as ways to measure community engagement in research. We will serve in the pilot.

- **CTSI Executive Committee and Partner Institution Co-Directors:** CEKF regularly works with the leadership and engage with them at various times to collaborate on efforts including workshops, strategic planning, as well as to provide representation, information and input within our CEKF Leadership Team and CAC meetings.
  o A variety of activity has occurred between our CEKF team and the other academic faculty and staff of the CTSI partner institutions. We have led and submitted several grant proposals with Co-PIs at the various institutions, coordinated special events and presentations when joint interests have been present, submitted publications and presentation abstracts together, and consulted each other for sharing expertise.

**B. Key Functions of the CTSI**

- **CTSI Office of Regional Collaboration and Outreach:** We planned and co-hosted the CEnR-CER Bridge Day. We have one draft publication that was also co-authored by one of the co-directors of this office.

- **CTSI Pilot and Collaborative:** We have provided insight and suggestions into each of the CTSI Pilot and Collaborative Request for Proposals over the lifetime of the grant including enhancing the language to include more community engagement in researchers considering application, providing ideas for the application and review process, and suggesting expert reviewers from community-academic partnerships.

- **Regulatory Knowledge and Support:** The faculty and staff have been collaborating to assure awareness and progress towards relationship and capacity building exist among community partners, community engaged researchers, Institutional Review Board staff and review committees to best approach diverging needs, priorities and common issues. In March, after several years of discussion and planning, we will co-host with the Regulatory Key Function and HWPP to expand the dialogue and gain more insight from external voices.

- **Evaluation:** We have been working closely to develop a better understanding of impact and process for collecting the data that make us such metrics. We have in the past year worked together a key publication related to scientific literacy and the impact of Science Cafes on such measures. We are also collaborating on a National CTSA Consortium publication. The Evaluation Key Function led development of a logic model for us.

- **Bioinformatics:** Our Community Engagement program is part of the recently funded proposal from the Patient Centered Outcomes Research Institute (PCORI) for developing a multi-institutional/CTSA/and state Clinical Research Database Network (CDRN) in collaboration with Bioinformatics. The role is preliminarily less intense on the practice of CEnR but has potential as the project evolves to establish deeper engagement strategies with local community organizations and patient stakeholder groups for which our faculty are well trained and experienced to implement.

- **Bioethics:** When Bioethics was a Key Function, the CEKF submitted collaborative grant proposals and approached challenges and learning needs with activities including co-presenting and facilitating. We continue to engage with this group as a complimentary and necessary partner in research and outreach with community.
**Education:** CEKF offers the first graduate level course of its kind in the country; **Community Engagement:** *Principles of Community Engagement and Community Engagement in Research* (20105B) is through the Master of Science in Clinical and Translational Science Program. This elective is designed to prepare students to apply translational knowledge and skills in community-based settings. Involving and collaborating with community in a bi-directional manner are vital concepts to improving public health and the health of communities. This course provides practitioners; researchers and community members with the foundation for understanding community engagement (CE) and community engagement in research (CEnR), based on principles of community based participatory research (CBPR). Student Learning Objectives are the following:

- Define key terms and principles used in CEnR
- Identify steps of partnership development in CEnR
- Recognize and apply ethical practices in CEnR
- Demonstrate an understanding of common challenges in CEnR
- Describe how to formulate research questions for CEnR
- Describe common evaluation methods and models used in community-engaged programs

**Figure 3.** The chart shows a comparison in institutional/community guest lecturers for the CEnR Course.

**PROGRAMS**

**A. Community Engagement in Research Workshops**

In 2012 and 2013 we began offering CTSI CEKF workshops with presentations from experts of the field on current knowledge and rising themes in Community Engagement in Research (CEnR) as it evolves within the translational continuum. These workshops have also been designed in a way to provoke new discovery through dialogue and collaboration among local investigators and community-based organization participants. Topics have included: Comparative Effectiveness Research and Community Engagement in Research Bridge Building; Community Health Informatics; and Community Disaster Resilience. For spring 2014, we have registration currently open for a workshop that addresses Community-Academic Partnerships and Institutional Review Board.

**Table 2: CTSI CEnR Workshop Details and Outcomes.** The following table describes purpose and current products from recent workshops.

<table>
<thead>
<tr>
<th>Year</th>
<th>Workshop Title and Purpose</th>
<th>Outcomes</th>
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<tbody>
<tr>
<td>2012</td>
<td>1st Community Engagement in Research Conference</td>
<td>National Presentation</td>
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<tr>
<td></td>
<td>Community Engagement in Research and Comparative Effectiveness Research (CEnR-CER) Bridge Building Day Workshop</td>
<td>Poster Presentations</td>
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<tr>
<td></td>
<td>• Examine the national and local perspectives on collaborative research between Community Engagement and Comparative Effectiveness</td>
<td></td>
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<tr>
<td></td>
<td>• Generate, through active, facilitated small group discussions, a baseline framework for collaboration on a</td>
<td>Manuscript</td>
</tr>
<tr>
<td></td>
<td>CEnR Graduate Course</td>
<td>Co-Sponsored</td>
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broad class of needs and assets
- Provide an opportunity for networking among local researchers interested in collaboration on existing and new research initiatives

PCORI Chief Scientific Officer Visit to MCW
- Funded PCORI CDRN Research Proposal

2013

**2nd Community Engagement in Research Conference**

**Community Health Informatics Workshop**
- Provide an opportunity to network among community-based organizations and local researchers interested in collaboration on existing and new initiatives focusing on information technology.
- Showcase projects currently in development around innovative ways
- Provide an opportunity for integrating approaches around common languages and creating products that lay the foundation for the future of
- By identifying these, both community and academic researchers can form opportunities for integrating approaches, developing a common language and creating a product(s) that lay the foundation for the future of informatics use in research.

**Funded PCORI CDRN Research Proposal**
- Follow-up Discussions with GE Healthcare
- Manuscript
- Input on Design and Functionality of the CTSI CEKF Website Pages
- Ongoing workgroup

2013

**3rd Community Engagement in Research Conference**

**Advancing Communities’ Disaster Resilience**
- What are current approaches and trends in Disaster Management practice and science?
- What are the community and academic perspectives and experiences on major local disasters and risks which can enhance a shared awareness and align for resilience during future events?
- How can existing community-academic partnerships reveal potential and existing community assets available for “in-place” preparedness and disaster/emergency response?
- What are potential next steps for establishing a “whole community disaster response”?

**Local News Coverage**
- Collaborative Grant Proposal in Development
- Data for Research Study

2014

**4th Community Engagement in Research Conference**

* in collaboration with HWPP & Regulatory Knowledge Key Function of the CTSI*

**Working Together to Make it Better: Communities, Academics & IRBs**
- Increase understanding of challenges between IRB requirements and CEnR
- Generate ideas for potential solutions to lessen challenges encountered by community engaged researchers
- Develop action plans to improve the experience of community engaged researchers working with IRBs

**Registration is currently open for this March 11, 2014 workshop**

Figure 3. The following graph shows the trend in institutional/community representation among recent workshop registrants.

![Figure 3. CTSI CEKF Workshop Registrants by Institutional Representation](image)

**Figure 4.** The following chart shows a comparison in institutional/community representation in recent workshop planning committees.

![Figure 4. CEKF Multi-Institutional Collaborations for Workshop Planning (2012-2013)](image)
B. Healthier Wisconsin Partnership Program Educational Opportunities
The CEKF has a productive, collaborative relationship with the Healthier Wisconsin Partnership Program and when opportunities to leverage between our two efforts. In previous bi-annual conferences that have been hosted by HWPP our faculty and staff have developed, led, or informed special segments to enhance learning and bi-directional dialogue. The following examples are considered accomplishments to CEKF Specific Aims;

- During the April 19, 2011 conference titled, *Partnerships for Health: Learning, Developing and Transforming Community Engagement*, facilitated a Speed Networking Session and Needs Assessment Survey through use of an audience response system.
- During the October 7, 2011 conference titled, *Capacity and Skill Building for Today and Tomorrow*, the CEKF co-facilitated and coordinated a panel presentation and table discussions regarding translational research questions called “The Research Continuum...Bench to Community and Back Again”.
- The aforementioned March 11, 2014 Conference regarding *IRB, Communities and Academics* is a joint effort.

C. 2012 Milwaukee Community Engagement in Research Network (MCERN)
The CEKF has had opportunities to work with the UW-Madison CTSA on efforts to enhance bi-directional learning between community and academics through co-hosting seminars titled *Making Connections 2 Make A Difference*.

- As a kick-off to the series, our team conducted a pilot workshop (through leveraged funding support from the Michigan Institute for Clinical Health Research) called *Ethical Protections for Community Engaged Research*. Over 20 community-based organization research directors and coordinators attended.
- Other seminars coordinated by the CEKF included (a) Bridge Between Practice & Policy: Implications for Practitioners, Policy Makers & Community, (b) US Health Policy & Politics: An Election Preview, and (c) Opening the Black Box: Lessons Learned from Seven Years of Community Academic Partnerships

D. Science Cafes
CEKF has consistently offered a spring and fall series of Science Cafés open to anyone able to attend. The Science Cafés are opportunities for researchers at the Medical College of Wisconsin and other academic institutions to have a conversation with the community in a bi-directional manner and to improve health literacy. These events also promote dissemination of research results from local faculty at MCW or through the Clinical and Translational Science Institute; this is a unique venue for researchers to share their results with the community and provides an opportunity for the community to discuss the research with the scientists firsthand.

*Figure 5.* The following graph shows the number of Science Cafes offered annually since 2009 and the total registration during each years’ series.

![Figure 5. Science Cafe Series Annual Offerings and Registration](image-url)
Greatest differences were found in the statements attendees ranged from 5.0 to 5.4 as compared to retrospective pre-test scores which ranged from 5.4 to 5.7, suggesting attendees underestimated, rather than overestimated their confidence in their scientific and health literacy before attending the café. Greatest differences were found in the statements I am confident in my ability to tell...
what information is trustworthy or not on the topic (-0.37) and I am confident in my ability to find other sources of information on this topic (-0.36).

Table 4. Mean and Standard Deviations for Scientific and Health Literacy Areas. The following table outlines the means, standard deviations and difference values between pre-Café ratings and retrospective pre-ratings for each of the self-reported measures of scientific and health literacy. *Paired samples t-test: statistically significant at p< .001, one-tailed Scale of 1=low to 7=high

<table>
<thead>
<tr>
<th>Scientific and Health Literacy Areas</th>
<th>Mean Post-Scores (N= 141) s.d.</th>
<th>Mean Retrospective Pre-Scores (N=141) s.d.</th>
<th>Difference (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to talk about [today's Science Café topic] with a health care provider</td>
<td>6.2* 0.9</td>
<td>5.5 1.5</td>
<td>.70</td>
</tr>
<tr>
<td>Ability to tell what information is trustworthy or not on [this Science Café's topic]</td>
<td>6.1* 1.1</td>
<td>5.4 1.5</td>
<td>.65</td>
</tr>
<tr>
<td>Ability to find other sources of information on [this Science Café’s topic]</td>
<td>6.2* 1.1</td>
<td>5.7 1.4</td>
<td>.52</td>
</tr>
<tr>
<td>Ability to speak to a scientist or a health researcher</td>
<td>6.2* 1.1</td>
<td>5.6 1.5</td>
<td>.60</td>
</tr>
<tr>
<td>General understanding of the methods used by scientists</td>
<td>6.0* 1.1</td>
<td>5.5 1.5</td>
<td>.50</td>
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SMART Teams
The Milwaukee School of Engineering (MSOE) works annually to combine high school student and teachers with local researchers to learn about research topics through designing and building a molecular model. These models help students to explore science as a process and the structure–function of proteins specific to the project. The students develop abstracts, poster and oral presentations and present at a local MCW event and at a national conference.

Figures 7-10. The following charts show annual metrics for SMART Teams since the inception of the CTSI CEKF.

Figure 11. The following graph shows the representation of institutional/community representation of SMART Team Mentors by year.
RESEARCH

Enhancing Knowledge for Community-Academic Partnerships

The CEKF is interested in enhancing what is scholarship in CEnR. MCW awards funds to community-MCW academic research partnerships which are committed to improving the health of Wisconsin residents. Since 2004, over $40 million dollars have supported over 140 projects. CEKF seeks to gain knowledge to improve the science of Community Engagement in Research (CEnR) through evaluation and lessons learned from these past and current projects.

- Through retrospective analysis of 100 Healthier Wisconsin Partnership Program (HWPP) projects, CTSI CEKF has identified 13 themes of lessons learned to advance projects for the future and to provide these guidelines at a national level to the Clinical and Translational Science Award Consortium.
- CEKF has been working social networking analysis on over 100 HWPP projects in which academics at MCW and local community based organizations are implementing community-academic partnerships for improving health. Our faculty share research results with the Healthier Wisconsin Partnership Program and nationally other CTSAs and CEnR Practitioners to enhance knowledge of (1) external and internal conditions, (2) support needs, and (3) other factors impacting community-academic funded partnerships to inform future research priorities.

Social Networking Analysis - Preliminary Visualizations and Data

The two Figures below are of the entire network of community-academic funded projects for two time periods. Each network visualization shows that there is a single primary component with almost all projects interconnected by the partners, so there is not a lot to say about that -- for example it is not that a few partners are serving as brokers to other partnership projects. Overall, there was little change over time in the structure of the inter-organizational network reflected in the HWPP data. The numbers of projects funded and organizations involved in 2005-6 and 2007-8 periods were very similar, but, as noted, there were fewer projects funded in 2009-13. The number of organizations per project increased somewhat from 2005-8 to 2009-13. This might be related to decreased number of projects funded in the latter period. The connectivity of the network, as reflected by the component distribution, was mostly unchanged over time. In each period, there was one large component that connected the vast majority of organizations directly or indirectly to each other through co-participation on projects. The large majority of participating organizations were involved in only one of the two periods (2005-8 vs. 2009-13). That is, organizations that participated in both periods were relatively uncommon. Organizations that participated in both periods tended to be involved in more projects in the first period than those that participated only in the first period.

Figures 7 & 8. The following chart SNA visualizations of two funding cycles of community academic partnership. Visualizations as dual mode with projects represented by red nodes and community based partners represented by blue nodes.

**Figure 7. SNA of HWPP Funding Years 2005-2008 for MCW C-A Partnerships**

**Figure 8. SNA of HWPP Funding Years 2009-2013 for MCW C-A Partnerships**
DISSEMINATION

The CEKF has placed significant effort on various forms of communication about our progress and new knowledge. Academic products from our partnerships and programming have been accepted by peer-reviewed journals and local/regional, national, and international conferences related to health research/community engaged research/team science/and professional associations and practice-based consortia. A complete list of these items have been included as an appendix to this report.

**Figure 10.** The following graph presents the annual products of dissemination by the CTSI CEKF.

![Figure 10. CTSI CEKF Dissemination](image)

FUTURE DIRECTIONS

The potential that comes with the success of this project spans across multiple realms which currently could be considered barriers to Community Engagement in Research. When transformation is achieved, people will have opportunities to exchange with the scientists, in a meaningful way, their health needs for research and improve their health through new therapies and treatments realized through clinical and translational research. The project dedicates its efforts to creating Scientific Citizens and Citizen Scientists.

- **CEKF will seek to establish a better understanding and develop working models for integration of CEnR within every phase of the translational continuum and among multi-institutional, multidisciplinary collaborations across our CTSI partner institutions.** CEKF has approach researchers in the basic and clinical research realms and conducted two Think Tank meetings to identify insight and explore their desires, needs and possibilities for deeper collaboration among their areas of research and community engaged research. We are in the process of reporting this information to our Citizen’s Advisory Council. Efforts to reach out to business and industry for new partnerships that continue to expand the reach and scope of activity within the CTSI. We will also be informing the strategic planning process of the Executive Committee to allow for replication of the process with additional stakeholders and inform the leadership of possible future directions in programming and goal setting.

- **CEKF also seeks to identify approaches for connecting the essential voice of the citizen in relation to local research through guiding scholars in Community Engagement in Research (either formally or informally), developing educational and professional competencies in the art and science of community engaged research.**
  - Those studying to become health-related researchers, at any stage of the translational continuum, have access to gaining perspective and skill involved in communicating their knowledge with a lay person. This project seeks to provide opportunity for the next generation of investigators to practice working with the public, develop competencies in principles of community engagement in research, and identify with being a part of a transdisciplinary research team.
CEKF would like to begin understanding the consultative and mentoring role of the existing and upcoming Community Engagement in Research faculty. These roles are also considered to be expanded to Transdisciplinary teams as the infrastructure evolves within our own CTSA.

- The general public in Wisconsin has opportunities to become more engaged with the health-related research occurring locally. This project seeks to continue to support this type of gain in a better understanding of science and the benefits of such research through offering educational presentations with researchers, developing community-academic research partnerships that are translational in nature, and by opening doors to community members to play key roles as members of research teams or participants in studies that seek to improve a health problem within the context of their lives. A deeper integration of these efforts, community-academic partnerships and making other types of connections will be essential for practical application of other IOM recommendations.
APPENDIX - CTSI CEKF Presentations and Publications

Publications


Presentations

LOCAL/REGIONAL


11. **Drew E**, Bonet M, Castro A, Villa M, Gomez S. Sweet Temptation (Dulce Tentacion). Diabetes-based telenovela shown at the at the American Heart Association’s Por Tu Corazon (For Your Heart) “Go Red” event at UMOS (United Migrant Opportunity Services), Milwaukee, WI. Oral Presentation, September 2013.


15. **Drew E.** Partnering with African American Breast Cancer Survivors to Create a Media-Based Breast Health Intervention. Oral presentation to the Center for Health Communities and Research Work Group, Department of Family and Community Medicine, Medical College of Wisconsin. Milwaukee, WI. June 10, 2013.


23. **Drew E.** Community-based participatory research on cancer. Oral presentation delivered to the Department of Radiation Oncology, Medical College of Wisconsin. Milwaukee, WI, May 2013.


34. **DeFino MC, Kissack A, Ahmed SM.** Living translation on a daily basis: Transitioning from the lab to the community. Science of Team Science Conference: Northwestern University, Poster Presentation June 24, 2013, Evanston, IL.


60. **Ahmed SM.** Community Engagement Key Function: Introduction and Initial Approaches to Addressing Ethical Considerations for Community Engaged Research. CTSI Regulatory Knowledge and Support and Research Ethics Meeting, Milwaukee, March 9, 2012.


64. **Ahmed SM, Franco Z, Nelson D, Kissack A, Opel S, Hagedorn S.** Community Engagement Key Function of the Clinical and Translational Science Institute: Improving health through engaging the community, the preparation of physicians and scientists of tomorrow while enhancing the skills of today’s health professionals and creating new knowledge in basic, translational and patient-based research. Leading the Way: A joint conference of the Medical College of Wisconsin-Advancing a Healthier Wisconsin and University of Wisconsin School of Medicine and Public Health- Wisconsin Partnership Program. Milwaukee, WI, September 27, 2012.


66. **Ahmed SM, Franco Z, Nelson D, Kissack A, Opel S, Hagedorn S.** Community Engagement Key Function of the Clinical and Translational Science Institute: Improving health through engaging the community, the preparation of physicians and scientists of tomorrow while enhancing the skills of today’s health professionals and creating new knowledge in basic, translational and patient-based research. MCW Research Day. September 12, 2012


Ahmed SM. The Opportunities and Challenges for Public Health in Milwaukee. 12th Annual Urban Initiatives Conference, Milwaukee, Wisconsin, June 2, 2010. (Panelist)

Michener, Lloyd. Director of Duke University Center for Community Research and Co-Chair of the NIH Community Engagement Steering Committee for the CTSA. Special presentation to the Clinical and Translational Science Institute Executive Committee and key stakeholders. Medical College of Wisconsin, Milwaukee, WI October 27, 2010.

Michener, Lloyd. Director of Duke University Center for Community Research and Co-Chair of the NIH Community Engagement Steering Committee for the CTSA. Keynote presentation for the Community Engagement for Health Conference. Italian Convention Center, Milwaukee, WI October 26, 2010.


NATIONAL


17. **Ahmed SM, Nelson D, Franco Z, Kissack A, Opel S, Hagedorn S**. Community Engagement Key Function of the Clinical and Translational Science Institute: Improving Health through Engaging the Community, the Preparation of Physicians and Scientists of Tomorrow while Enhancing the Skills of Today’s Health Professionals and Creating New Knowledge in Basic, Translational, and Patient-Based Research. Methods,


INTERNATIONAL


