

YEAR IN REVIEW

2015





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National
FarmMedicine Center

YEAR IN REVIEW

2015

OUR MISSION

“The National Farm Medicine Center will be a national resource, conducting high quality research, developing and delivering health and safety information, exploring innovative service models and effecting broad change to improve human health and safety associated with rural and agricultural work, life and environments.”

A photograph of a combine harvester in a field, heavily tinted with a green color. The harvester is positioned in the center, partially obscured by the large text overlay. The background shows a line of trees under a pale sky.

WHO WILL FEED US IN 2030?

NEXT GENERATION OF FARMERS BRINGS NEW SAFETY ATTITUDES

The face of agriculture is changing. The most diverse generation of U.S. farmers and ranchers is slowly replacing a farmer workforce which now averages 58 years of age. These millennial farmers are well educated, more traveled than their parents and technologically savvy. Among these beginning farmers are veterans, women and youth.

At the same time, demand for food, fiber and fuel is increasing. By 2030, Earth will be home to more than 8 billion people, a 10 percent increase from today. How do we satisfy their appetites for these products while simultaneously ensuring the safety of farm families and farm workers?

The new farmers grew up with bicycle helmets, car seats and airbags, and are passing those safety practices to their children. Their matter-of-fact attitudes toward safety might make this generation of farmers more open to safety behavior changes.

The National Farm Medicine Center and its largest program, the National Children's Center for Rural and Agricultural Health and Safety, continue to address all generations, including those who live, visit and work on farms/ranches. Drawing upon Federal, non-profit and community support, scientific staff and unique rural location, the Farm Center and Children's Center are ideally positioned to study and influence safety practices.

**“Thank you” to all our friends, collaborators and funding agencies
who make our work possible.**

Agriculture may change, but the need for safety does not.

A handwritten signature in white ink, appearing to read 'Matthew Keifer', is centered on the page. The signature is fluid and cursive, with a large, stylized 'M' and 'K'.

Matthew Keifer, M.D., M.P.H.
Director, National Farm Medicine Center

RESEARCH

Through research we discover which innovations work best in reducing agricultural injuries.

NATIONAL CHILDREN'S CENTER

The National Institute for Occupational Safety and Health (NIOSH) has funded the National Children's center since 1997 through competitive grant renewals. The Center, directed by **Barbara Lee, Ph.D.**, with Deputy Director **Barbara Marlenga, Ph.D.**, is also supported through generous donations and smaller grants. Seven distinct projects comprise the current \$6 million, five-year NIOSH-funded cycle. Year 2 featured exciting progress within the following projects:

PROTECTING CHILDREN WHILE PARENTS WORK

AMY K. LIEBMAN, M.P.A., M.A., MIGRANT CLINICIANS NETWORK

In an effort to increase engagement of agribusiness leaders in facilitating availability of off-farm child care services for migrant and immigrant agricultural workers with children younger than 12 years, the project team presented information on the project to: a) National Council of Agricultural Employers annual conference; b) National Youth Farm and Ranch Safety Symposium; c) the National Migrant and Seasonal Head Start Association annual meeting. Site visits were conducted from Washington to Florida, allowing project staff to better understand the best practices of model childcare centers. Interviews and focus groups helped the team to better understand barriers to childcare services from the perspective of agricultural worker parents, agribusiness leaders, and childcare providers. The project has already developed tools that have been used to gather information from parents and industry leaders, including a survey of National Council of Agricultural Employers NCAE members and a focus group guide that was used to facilitate a discussion at the National Migrant and Seasonal Head Start Association meeting.



National Children's Center
for Rural and Agricultural Health and Safety



ADVANCED KNOWLEDGE MOBILIZATION AND E-COMMUNICATIONS (AKME)

MATTHEW KEIFER, M.D., M.P.H.

The AKME health communications, marketing, and technology specialists facilitate messaging, packaging and dissemination of information into, out of, and across all projects. The AKME team collaborates with center-wide and external partners to identify, design, utilize and evaluate appropriate communication approaches for their multiple purposes. AKME offers timely and culturally-appropriate communication strategies, including social media, virtual meetings, and mobile applications. AKME worked closely this first year with all Children's Center Principal Investigators, starting with a survey of investigators to determine preferred communication methods with their teams, their agents of influence and how their agents might communicate with other responsible adults to protect children on farms.

FILLING GAPS IN CHILD AG INJURY DATA

BARBARA MARLENGA, PH.D.

There is no comprehensive national surveillance system for child agricultural injuries, fatalities, or hospitalizations and in most cases there are no mandatory reporting requirements for these injuries and fatalities. This project aims to explore the most promising, existing public health surveillance systems to determine their usefulness for assessing the health and safety of children in agricultural settings. Project staff received the Health Behaviors in School-aged Children (HBSC) dataset in July 2015 and have made good progress in understanding the strengths and limitations of the dataset and reviewing data summaries of the farm cohort within the survey. Project staff obtained National Emergency Medical Services Information System (NEMSIS) and National Trauma Data Bank (NTDB) datasets for 2009-2012 and are working with the data partners. "Basic elements" of a surveillance system have been drafted and sent to the co-investigators, a consultant, and scientific advisors for feedback. Once finalized, these standard criteria will streamline the evaluation of each of the surveillance systems reviewed.

INTERVENTION THROUGH INQUIRY: UNDERSTANDING BEGINNING FARMERS AND RANCHERS

CASPER BENDIXSEN, PH.D.

The agricultural safety and health field is not entirely prepared for the rapidly changing demographics of agriculture. The average age of U.S. farmers and ranchers is nearing 60, and many of those who are taking their places lack agricultural backgrounds and come from previously underrepresented and unique social-cultural backgrounds. The Children's Center is addressing this safety knowledge gap with this project. The overall goal is to increase beginning farmers' and ranchers' knowledge of safety and injury prevention, especially with respect to the children they raise, hire and host on their farms or ranches. As part of that project, staff began engaging the Midwest Organic and Sustainable Education Service (MOSES), a nonprofit organization based in Spring Valley, Wis. In the end, the study communities will have interventions tailored to their feedback, and hopefully will go on to develop childhood agricultural safety expertise of their own.



*Dr. Max Lum, NIOSH, with
Dr. Matthew Keifer and
Dr. Susan Turney.*



STRENGTHENING ORGANIZATIONAL CAPACITY

BARBARA LEE, PH.D.

This project features marketing approaches and principles of corporate social responsibility. Interactions were held with four insurance companies and a national association of insurers. Among outcomes: Rural Mutual of Madison, WI, developed a program to address childhood agricultural injury prevention, and is serving as a model for other insurance companies. Country Financial of Illinois has been utilizing National Children's Center resources as well. More broadly, the Center worked with the National Association of Mutual Insurance Companies (NAMIC) to identify current policies, practices and priorities of insurance companies that are members of NAMIC. In addition, a survey was conducted with NAMIC members to help understand what, if any, policies and practices the member companies have regarding child ag injury prevention. Recommendations have already been made to some companies and organizations.

DEVELOPING A SUSTAINABLE INFRASTRUCTURE FOR THE SAFETY IN AGRICULTURAL YOUTH (SAY) NATIONAL CLEARINGHOUSE

DENNIS MURPHY, PH.D., PENN STATE UNIVERSITY



This project began in 2013 at Penn State University in response to the agricultural community's pushback against the Department of Labor proposal to update regulations for child labor in agriculture. This project established evidence-based, technologically appropriate, safety and health curriculums for youth working in agriculture. National Children's Center funding helped develop and test the curriculum rubric and Curriculum Alignment Submission Tool (CAST), operationalizing it as a valid instrument in aligning a curriculum with the Agriculture, Food and Natural Resource (AFNR) Cluster Standards. Public access to all of the materials is now ensured via the SAY National Clearinghouse. (<http://extension.psu.edu/business/ag-safety/youth-safety/say-project>).

ENHANCING SUPERVISORS' SKILLS AND EMPLOYER POLICIES TO PROMOTE AND PROTECT THE HEALTH OF YOUNG AGRICULTURAL WORKERS

DIANE ROHLMAN, PH.D., AND SHELLY CAMPO, PH.D., UNIVERSITY OF IOWA

Young workers are more likely to have an injury on the farm than more experienced workers. Youth working in agriculture are able to work at younger ages and in more hazardous jobs than youth in other industries. Fatigue, substance use, and distracted behaviors are common risk factors that can impact safety, health and performance both on and off the job. Interventions directed towards supervisors and workplace policies can play a key role in reducing injuries and promoting health. The goal of this project is to develop a training for supervisors of young agricultural workers. The training will teach supervisors how to keep their workers safe and healthy through better workplace training, enhanced communication and supervision, and the adoption of more workplace policies. As a first step, we reviewed existing practice (i.e. Safety Guidelines for Hired Adolescent Farm Workers), model workplace policies (e.g., Model Policy: Youth Employment in Agriculture), and the academic literature to look for workplace and supervisor recommendations that cut across work tasks.

MINI-GRANTS

The National Children's Center federal award continues annual funding for mini-grants that support small-scale projects and pilot studies addressing prevention of childhood agricultural disease and injury. Since 2002, 52 projects have been funded in amounts up to \$20,000. More than half of the projects have addressed vulnerable populations.

MINI-GRANT AWARDEES FOR FY 2016

Jennifer Nelson – Midwest Organic and Sustainable Education Service (MOSES), “Children’s Farm Safety Education and Outreach to Organic and Sustainable Farmers.” This project takes information about child farm hazards to a large group of new and beginning farmers (10,500 households) who may not otherwise be aware of the interventions, resources and solutions available to control exposures.

Bryan Weichelt – National Farm Medicine Center/National Children’s Center for Rural and Agricultural Health and Safety, “Enhancing and Evaluating the National Database of Ag Injury and Fatality News Clippings.” The overall goal of this initiative is to build the capacity for **AgInjuryNews.org** to become the national source of publicly available news clippings data for childhood agricultural injuries and fatalities.





Yurany Ninco Sanchez conducted Seguridad trainings across Wisconsin.

UPPER MIDWEST AGRICULTURAL SAFETY AND HEALTH CENTER



The National Farm Medicine Center is a collaborator in the Upper Midwest Agricultural Safety and Health (UMASH) Center www.umash.umn.edu.

UMASH, based at the University of Minnesota, is one of 10 Centers of Excellence in Agricultural Disease and Injury Research, Education, and Prevention funded by the National Institute for Occupational Safety and Health (NIOSH).

The National Farm Medicine Center's projects focus on dairy. With Hispanic workers representing up to 60% of the Wisconsin dairy workforce (and about one-third of the agricultural workforce in the United States), the Farm Center is continuing its long partnership with Migrant Clinicians Network (MCN) by producing culturally appropriate educational interventions to the dairy industry.

Matthew Keifer, M.D., M.P.H., co-Principal Investigator of UMASH, leads a project core team that includes **Amy K. Liebman, M.P.A., M.A.**, director of MCN's environmental and occupational health programs, along with MCN's **Patricia Juárez-Carrillo, Ph.D., M.P.H.**, and **Kerry Brennan**. Farm Center team members are Epidemiologist **Iris Reyes, M.P.H.**, Project Manager **Bryan Weichelt, M.S., M.B.A.**, and Community Outreach Trainer **Yurany Ninco-Sanchez, R.N.**, an OSHA-trained safety specialist.

SEGURIDAD EN LAS LECHERIAS: IMMIGRANT DAIRY WORKER HEALTH AND SAFETY

The National Safety Council chose Seguridad en las Lecherías (Safety in Dairies) as the centerpiece of its inaugural Stakeholder Collaboration in Occupational Injury Research Award. The award was presented May 19 as part of the National Occupational Injury Research Symposium (NOIRS) 2015 in Kingwood, W.V. The National Farm Medicine Center, Migrant Clinicians Network and four partner organizations received the award. "Dairy workers have a high rate of occupational injury," said Liebman, co-director for the project. "The Seguridad project shows that for a huge problem like work-related health and safety on dairy farms, collaboration between workers, producers, researchers, and health and safety practitioners is an effective

approach to ensure worker protection.” Partner organizations include: Professional Dairy Producers of Wisconsin; the Consulate of Mexico in Saint Paul, Minnesota; the University of Wisconsin-River Falls; and Wisconsin nonprofit Puentes/Bridges. The Seguridad project tests culturally-appropriate popular education approaches and the promotor de salud, or community health worker model, to provide health and safety training to immigrant dairy workers in Wisconsin. In the promotor model, lay people are trained to educate their peers. To date, the Seguridad project has partnered with 68 farms throughout Wisconsin, training 850 workers and over 50 promotores, totaling nearly 3,500 training hours. Free trainings conducted in Spanish will be completed in early 2016.



*Iris Reyes, Amy K. Liebman
and Deborah Hersman,
National Safety Council.*

SURVEILLANCE OF DISEASE AND INJURY IN WISCONSIN DAIRY FARMERS AND WORKERS

The main objective is to establish and maintain a working injury surveillance system among dairy farmers and farm workers in Wisconsin. The initial data collection was completed in fall 2014. The survey tool is being prepared for a second round of data collection to identify trends in injury exposure on farms. An effective surveillance program is essential to providing data on the effects of safety programs and policies, among other changes over time. The project is also evaluating the use of Natural Language Processing (NLP), a tool designed to data mine the electronic medical records of patients in the Marshfield Clinic service area to identify farmers and contribute to ongoing surveillance. The tool would allow disease and injury data to be automatically collected reducing the time and material costs of the surveillance project. After initially defining the search parameters, the research team is continuing to explore more fully the use and efficacy of the NLP tool.

FACILITATING RETURN TO WORK FOR INJURED AND ILL ANIMAL AGRICULTURE WORKERS



This project is developing a computer application, housed on **SafeReturnToWork.org** enabling clinicians to provide injured workers with an effective and adaptive return to work program, which takes into account the limitations of the injured worker and the needs of the farm. Farm task data collection continued in 2015. The project team has now visited 32 farms across Wisconsin and Minnesota. Approximately 90% of the task data have now been loaded into a structured format, via RedCap electronic data capture tool. Data critical to the Return-to-Work algorithm are being loaded into the application database. In addition, thousands of farm task photos were captured

over the past year. Within the software application these photos are used as educational tools to facilitate communication between the clinician and the patient. Software development continues. The mobile-friendly, web application is functional and will be undergoing usability testing with clinicians, residents, and other users in 2016. The team is also exploring medical record integration options with Marshfield Clinic Information Systems' new clinical software.

AGRICULTURAL SAFETY CONSULTING

In 2015, three OSHA-certified ASC professionals conducted 18 dairy farm inspections throughout Wisconsin to assist producers in improving health and safety on their farms. A total of 283 hazards were discovered with an average of 15.7 hazards identified per farm. The top 3 most common issues identified were related to hazard communication, electrical equipment and confined spaces. Farms received recommendations on how to fix the hazards.

SPHERES OF INFLUENCE

Casper Bendixsen, Ph.D., is exploring the different degrees of influence various individuals and groups possess in dairy farmers' decision making. This pilot project is developing a unique pile-sorting and interviewing instrument that will both qualitatively assess and quantitatively measure the influence that agricultural services such as bankers and insurance agents believe they exert on farmers and ranchers and vice-versa. Through this innovative, ethnographic methodology, central Wisconsin agricultural service providers and farmers are engaging in a series of pile-sorts and follow-up interviews. The final steps to be completed by June 2016 include testing the reliability of the instruments by repeating the exercise with a sample of the participants, coding over 40 interviews, and applying various statistical tests to the quantitative data.

OTHER PROJECTS

WISCONSIN INFANT STUDY COHORT (WISC)

Not only does abundant nutrition flow from farms, but so might the solution to America's childhood asthma problem. The National Farm Medicine Center is working with the University of Wisconsin to study how farm environments stimulate stronger immune systems and make children far less likely to develop respiratory illness. Expectant mothers and their babies throughout Wisconsin – half from farms, half from rural non-farm homes – are being enrolled. It's a hot topic. The journal *Science* published a study out of Ghent University in Belgium revealing a link between farm dust and protection against asthma and allergies. "When farmers hear about our study their reaction sometimes is, 'We know our kids are healthier – you don't need to do a study to tell you that,'" said James Gern, M.D., principal investigator for the UW Asthma and Allergic Diseases Clinical Research Center. "But the majority of kids do not grow up on farms, and rates of allergy and asthma are higher than ever," Dr. Gern said. "So we want to learn what it is, specifically, in their environment that has these beneficial effects. We think it might be contact with microbes – bacteria and other microscopic organisms that don't cause disease, but affect you – especially microbes from animals, and especially those found on dairy farms." WISC is being coordinated in Marshfield by **Iris Reyes, M.P.H.** It is funded by the National Institutes of Health and National Institute of Allergy and Infectious Diseases, the University of Wisconsin Institute for Clinical and Translational Research, and the Upper Midwest Agricultural Safety and Health Center.



ROBOTIC MILKING SYSTEMS AND QUALITY OF LIFE

This pilot project is using a comparative cross-sectional survey and interview methodology interviewing farmers who have adopted robotic milking systems and a sample of those who have not, to assess the impact of robot adoption on injuries among farmers, farm families, and others who interact with the cows (e.g., veterinarians and hoof trimmers). This project, led by **Bryan Weichelt, M.S., M.B.A.**, is also assessing the perceived quality of life across groups in the upper Midwest. This study will focus on small family dairies that have no employees outside the immediate family. Robotic milking systems have increased in popularity across the upper Midwest. As the average age of dairy farmers continues to rise and as farms modernize, more owners are looking at options to opt out of traditional milking tasks. With a robot, an owner-operator's personal labor is reduced. This may also appeal to the younger generation interested in taking over the farm.



VETERANS TO FARMERS (V2F)

The Veterans to Farmers movement is part of the changing agricultural landscape. The U.S. Department of Agriculture now includes veterans as a priority population in its Beginning Farmers and Ranchers Program. “We asked these men and women to do the most dangerous job abroad; now we’re asking them to do the most dangerous job domestically,” said **Casper Bendixsen, Ph.D.** “Society is willing to support careers for veterans, but we need to do the research to emphasize the benefits and mitigate the risks.” Dr. Bendixsen’s ethnographic project got its start thanks to \$25,000 of philanthropic support provided through the Auction of Champions Fund a Need program.



Bryan Weichelt, left, and Dr. Casper Bendixsen, center, visited with veterans group leaders at the MOSES (Midwest Organic and Sustainable Education Service) Conference in La Crosse.

It is aimed at gaining a grounded understanding of V2Fs; the perceived therapeutic benefits of transitioning to agriculture; V2F knowledge, attitudes, and beliefs about safety; and specific health and safety risks. Findings to date include: 1) Veterans are very aware of the fact that farming is being sold as explicitly therapeutic, but remain unsure how a long-term career in agriculture will remain as such. 2) Veterans, especially those that have seen combat, have a greatly widened spectrum of risk. However, this may lead to their

ignoring or underappreciating the daily risks of civilian life (and farming). 3) Physicians and counselors working with V2Fs could greatly benefit from a guide that explains how to approach a veteran that has tied their life to the lifecycles of animals and crops. 4) For V2Fs, agricultural health and safety information would be best translated into language and schematics that utilize military risk assessment strategies and military decision-making cycles.

SASKATCHEWAN FARM INJURY COHORT STUDY: PHASE II

Barbara Marlenga, Ph.D., is a co-investigator on the Saskatchewan Farm Injury Cohort Study, an ongoing study of injury and its possible determinants on Saskatchewan farms. In Phase II of this project (2012-2017), a new cohort was developed consisting of rural dwelling farm and non-farm children and youth. At baseline, 2,328 children from 1,129 families were enrolled in the study. The child cohort will be followed longitudinally for injury events and their circumstances.

INTEGRATED PEDIATRIC PRIMARY CARE AND CHILD FARM SAFETY

Integrated pediatric primary care is a practice where clinical psychologists are embedded into primary care to offer behavioral health services at the point of contact with the child’s primary care provider. This integration can play an important role in promoting overall child development including physical, social, and emotional well-being. Child development principles underlie many child farm safety interventions, so it is important to educate families about them. Pediatric primary care is a key child-serving system for farm families and provides a comfortable and trusting environment. Thus, **Julie Kaprelian, Psy.D.**, **Barbara Marlenga, Ph.D.**, and **Richard Berg, M.S.**, are exploring the potential for including a child farm safety component within an integrated pediatric primary care model. Dr. Kaprelian is conducting interviews with Marshfield Clinic pediatric providers about farm safety and how they view including farm safety principles within their practice using a similar integrated model. Results from this feasibility study will guide next steps to address child farm safety within pediatric primary care.

MICROBIOME

Humans and animals harbor trillions of bacteria in and on their body. Most are beneficial to their host because they help in digesting food, extracting both nutrients and energy. But if the harmonic proportion of bacteria is disrupted, poor health could result. We do not know enough about the bacteria in the soil and the guts of the animals. If we know the right combinations of bacteria in the gut, then a day may come when we can supplement the soil or the animal with the right bacteria to enhance health and productivity. **Dr. Casper Bendixsen** is assisting the Marshfield Clinic Center for Human Genetics (**Dr. Sanjay Shukla** and **Dr. Paul Gunderson**) in collecting fresh manure (surrogate for gut bacteria), and manure from holding tanks to see what kind bacteria populations are there. The team has also collected soil to assess types of bacteria and how they could enhance the crop.



Dr. Sanjay Shukla

SUMMER STUDENTS AND INTERNS

The Farm Center hosted two students as part of a national summer internship program providing practical experience in the field of occupational safety. **Elizabeth Steiner**, Boston College, and **Katherine Zielke**, a graduate of Emory University, spent eight weeks at the Farm Center working primarily on Seguridad en las Lecherías (Safety in Dairies). Steiner and Zielke came to the Farm Center as part of the Occupational Health Internship Program (OHIP), an initiative of the Association of Occupational and Environmental Clinics. **Iris Reyes, M.P.H.**, coordinated their work.

A third student, **Dani Schenk**, interned through the Marshfield Clinic Research Foundation Summer Student Research Program. Schenk will receive her Master's in Public Health from the University of North Carolina, Chapel Hill, in May 2016. The practicum requirement for her degree was completed under **Dr. Bendixsen's** supervision. Schenk's principle contribution to the Spheres of Influence project was translating the pile-sorting data and developing interviewing instruments for use with agricultural insurance agents, subject recruitment, interviewing, and organizing both qualitative and quantitative data.



Katherine Zielke, middle, and Elizabeth Steiner interview a farmer.

TRANSLATION

These initiatives “translate” results of research into products and resources usable by farmers, farm workers and safety professionals.

AGRITOURISM

The redesigned “Integrating Safety into Agritourism” website (www.safeagritourism.org) features mobile-friendly checklists and virtual walkthroughs, reflecting how farmers prefer to get their information. Farmers increasingly are using tablets and smartphones, according to a Farm Journal Media survey of more than 1,000 producers. The survey indicated that by the end of 2016, 60 percent of farmers will own tablets and nearly 90 percent will own smartphones.

Marsha Salzwedel, M.S., agritourism project manager, said the virtual walkthroughs cover 15 key areas including petting zoos, hand washing/restrooms, large animal safety, farmers’ markets, food safety and more. Farmers can access the mobile-friendly checklists on their tablets, fill them out while walking their property, and then save the information for their records. The website also contains information about insurance, along with numerous print-ready resources such as signs, policies, logs and informational handouts – all available at no cost.

“I really like the flow, and it was easy for someone like me to navigate and find what I was looking for.”

Tom Tweite, Tweite’s Family Farm, Byron, Minn.

“You make my work as an educator easy! I like this easy to use format.”

Dora Ann Hatch, Agritourism Coordinator, Louisiana State University



CASN

The Childhood Agricultural Safety Network (CASN) met in-person in June with 45 attendees. “Round Robin” reports highlighted many areas of common interest, leading to shared resources to minimize duplication of effort. Membership of the CASN group was increased to over 50 organizations, and now includes insurance members, ag educators and others. Messages are sent to the CASN group regularly, which include child ag injury incident notifications. CASN is facilitated by **Marsha Salzwedel**.

GRAIN HANDLING SAFETY COALITION VIA CASN

Marsha Salzwedel, M.S., youth safety specialist, represents the National Children’s Center on the Illinois-based coalition. She co-developed the Stand T.A.L.L. (Talk, Ask, Learn, Live) curriculum, which empowers young workers. “If youth don’t understand a task, they need to know that asking questions is the right thing to do,” Salzwedel said. The materials can also be used to educate parents, employers and community members. Salzwedel introduced the curriculum on a coalition webinar.



Salzwedel teamed with **Bryan Weichelt** on another coalition-hosted webinar, “It’s harvest season: Are the children safe?” This webinar described actual childhood injury incidents, previewed an injury news clippings website and offered proven safety strategies and resources that farmers, parents and employers are encouraged to use to keep children safe. Salzwedel added a provocative “myth busting” segment and tackled myths that put children at risk such as, “children need to ride tractors at a young age to get them interested in farming.”

AG INJURY NEWS

The National Children’s Center has built and continues to improve a searchable, web-based news clippings database called Ag Injury News, **www.aginjurynews.org**. (Visitors need to register and set up a free account.) The initiative is being led by **Bryan Weichelt, M.S., M.B.A.** A large set of searchable variables on the website include: age, gender, injury agent, year, month, article source, location, and others. Users can quickly conduct a detailed search such as finding “the number of Minnesota farm-related ATV incidents in the past two years, with victims under the age of seven.” As of November 2015, there are more than 2,000 news articles loaded into the system with more being added every week. Building on this AgInjuryNews.org platform, a new project began in early 2016 that will add functionality by providing prevention messages and content related to the news clipping topics. Each article will link to messages and resources specific to the topic.

FARM-HAT UNDERGOES MOBILE FACELIFT

The Farm/Agriculture/Rural Management – Hazard Analysis Tool (FARM-HAT), developed by Penn State University, is a simple method of providing first-hand information about hazards, a process for evaluating hazards, and recommendations on correcting hazards. A National Children’s Center project is developing new version of the FARM-HAT application for farmers, insurance underwriters, and safety inspectors who need to map potential farm hazards and assess their risks. Built upon a geospatial platform, FARM-HAT will be a mobile-friendly website that allows users to place potential farm hazards on a digital map of the farm, said **Bryan Weichelt**, project manager. The core foundational elements of this application will be reused across the other modules within a larger suite, including Farm MAPPER. The suite will soon be available on **www.SaferFarm.org**.

INSURANCE COMPANIES INCREASE FOCUS ON CHILD AG SAFETY: SURVEY

Insurance companies are becoming more involved in farm safety, as revealed in a survey by the National Children's Center conducted at the 2015 National Association of Mutual Insurance Companies (NAMIC) Agricultural Risk Inspection School in West Des Moines, Iowa. The survey assessed current practices and future opportunities to promote childhood ag injury prevention. Ninety-six of 170 attendees (loss control specialists, underwriters, managers and supervisors) completed the survey.



Additional highlights:

- 85 percent of respondents indicated they communicate safety messages to farmers
- 83 percent adjust premiums based on loss control surveys
- 75 percent want to strengthen their company's focus on child ag safety

The survey also showed that insurance professionals believed they would need additional farm safety resources in the future, and identified ATVs, operating tractors and skid steers, working with animals, agritourism, and extra riders on farm equipment as key topics.

In following up, the Center produced a four-page publication aimed at insurers, providing the scope of the childhood ag injury problem, summarizing survey results and providing an order form for the Center's safety resources.

CHILDCARE SERVICES FOR CHILDREN OF HIRED FARM WORKERS

Where do children go while their parents work in agriculture? Despite policies to the contrary, children are sometimes brought into the workplace because parents have no practical alternatives, according to a recent study in Washington state. The Washington Growers League of Yakima, Wash., obtained a grant from the Agricultural Safety and Health Council of America (ASHCA) for the study, which seeks solutions to this unsafe practice.

The Children's Center is helping to raise awareness of the mutual benefits of facilitating and supporting care and services for employees' children. An eight-page document, "We're All In!," summarizes key findings and makes recommendations. Benefits to employers when child services for workers are available include: more women available to work; employees able to work more hours; and enhanced company reputation.

We're All In!

Working Together to Provide Services for Children
Whose Parents Work in Agriculture





JOURNAL OF AGROMEDICINE

The National Farm Medicine Center finished its 12th year editing the Journal of Agromedicine (www.tandfonline.com/toc/wagr20/current). No other peer-reviewed journal focuses as comprehensively on the intersection of human well-being and our most hazardous industry. The Journal continued its tradition of publishing special issues dedicated to particular themes and events with the, “7th International Symposium: Safety and Health in Agricultural and Rural Populations – Global Perspectives,” Volume 20, Issue 3. The journal is managed by Editor-in-Chief **Matthew Keifer**, Managing Editor **Scott Heiberger** and Editorial Specialist **Marie Fleisner**.

The Journal of Agromedicine published seven papers on the topic of childhood/youth safety and health.

COMMUNICATIONS/OUTREACH

Education Outreach Specialist **Tammy Ellis** and Communications Specialist **Scott Heiberger** increase the center’s visibility and impact by translating safety and health research through a variety of platforms. Key audiences include the farm community, safety and health professionals, educators, policy makers, media, agribusiness, health care organizations and other stakeholders that might influence farmers’ decision-making (e.g., lenders and insurers).

Ellis chairs Farm Center committees for stewardship, social media and websites (evaluating the center’s digital messages and content via analytics). She manages projects and organizes, promotes and manages outreach activities, including skin cancer screenings and the Wisconsin ROPS Rebate Program. In May, Ellis led planning and execution of a day-long stewardship event involving all Farm Center staff showcasing their projects to the community. In September she hosted a Health Communications/Digital Strategies Day featuring NIOSH senior e-Communications advisor **Max Lum**. Dr. Lum presented a Webinar, a noon science talk and an afternoon seminar on establishing a Wikipedia page.

Heiberger focuses on media relations, ensuring that the Farm Center’s work is prominently featured in coverage of ag safety and health. He produces media releases, newsletters, social media posts and other content. He also conducts research on the role of media in injury prevention, co-authoring two manuscripts published in 2015. In addition to the Farm Center and National Children’s Center, Heiberger drafts releases on behalf of the International Society for Agricultural Safety and Health (ISASH) and U.S. Agricultural Safety and Health Centers.

Both Ellis and Heiberger are heavily involved with ISASH. Ellis rebuilt the ISASH Membership Committee and, as its co-chair, led development of marketing materials being used to ensure the future of the organization. Heiberger serves on the ISASH Board of Directors.



YouTube phenoms, the Peterson Farm Brothers, stopped by our booth during the Wisconsin State Farm Bureau Federation meeting, Dec. 5, in Wisconsin Dells.

SERVICE

These research-proven concepts are delivered to the community as services. Their success often depends on generous donations of individuals, businesses and other Friends of the Farm Center.

WISCONSIN ROLLOVER PROTECTIVE STRUCTURE (ROPS) REBATE PROGRAM

Since the program's establishment in 2013, 130 tractors have been retrofitted with this life-saving apparatus. Program leaders **Barbara Marlenga, Ph.D.**, and **Tammy Ellis**, with assistance from **Scott Heiberger**, promote the rebates through earned media, advertising, enrollments at farm shows and partnerships with insurance companies and farm groups. Wisconsin tractor owners can apply via the ROPS hotline, 1-877-767-7748 (1-877-ROPSR4U), or the website, www.ropsr4u.com. A ROPS is an operator compartment structure (usually cab or rollbar) intended to protect farmers from injuries caused by rollovers. The ROPS system did not become standard on U.S. manufactured tractors until 1985. More than half the tractors in Wisconsin do not have this protection. A ROPS, when used with a seatbelt, is 99 percent effective in preventing injury or death in the event of an overturn. Philanthropic support from the Auction of Champions has made the rebate program possible.

"I never thought it would happen to me."

And it didn't. Instead, it was so much worse."



"My neighbor died driving my tractor. He went into a ditch and overturned. He was 16-years-old."

Not everyone who drives your tractor has as much experience as you do. Without rollover protection, they are at risk.

**70%
REBATE**

Save up to \$865 on costs to retrofit your tractor

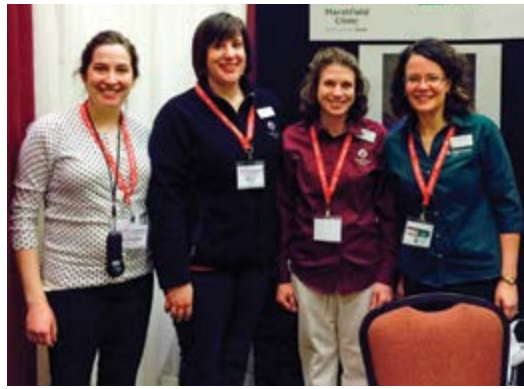
1-877-ROPS-R4U

www.ROPSR4U.com



SKIN CANCER SCREENING

The Skin Cancer Screening program, led by **Tammy Ellis**, is moving into new groups of farmers in Wisconsin. In conjunction with the Marshfield Clinic Dermatology Department, the Farm Center offered its first-ever screening of Wisconsin cranberry growers during that association's winter trade show. Physicians identified multiple suspected skin cancers, including at least one potentially deadly melanoma, and an even larger number of pre-cancerous lesions among 54 people who participated in the free screening. Scheduled 2016 screenings include: the Wisconsin Cranberry Growers Association meeting, Wisconsin Potato and Vegetable Growers Association meeting, and the Marshfield Farm Show. The screenings are made possible through philanthropic support from the Auction of Champions.



“Although I am aware of skin cancer and have many moles, I hadn’t made time to go to the doctor ... I’d like to see more preventative screenings occur in a walk-in setting, and not just for skin cancer. It comes down to convenience.”

Doug Rifleman, cranberry grower

STEM SCOUTS

National Farm Medicine Center staff members are helping nurture the next generation of scientists! **Marsha Salzwedel**, **Scott Heiberger** and **Tammy Ellis** assisted with a pilot program offered by the Boy Scouts of America. STEM Scouts offers girls and boys age-appropriate hands-on experiences to explore Science, Technology, Engineering and Mathematics. Farm Center staff worked with third through fifth graders in Marshfield, Wis., inviting science professionals from other parts of Marshfield Clinic Research Foundation to help out on particular sessions. The Foundation sponsored the lab in honor of **Donna David**, whose 28-year career at the Foundation (including several years in the Farm Center) was cut short in a bicycle accident.



*Scott Heiberger and
Marsha Salzwedel*

NEWS & NOTES



Marsha Salzwedel

SALZWEDEL IS AGRITOURISM SAFETY LEADER

Marsha Salzwedel, M.S., received awards from two agritourism associations for promoting best safety and health practices in the fast-growing agritourism industry. The North American Farm Direct Marketing Association (NAFDMA) presented Salzwedel with its “Outstanding Leadership” award at its national convention, and the Wisconsin Agricultural Tourism Association (WATA) named Salzwedel “Partner of the Year” at the WATA Premiere Banquet. Salzwedel credited the entire Children’s Center team for the long-term, mutually beneficial relationships with NAFDMA and WATA. Virginia Schwarzenbach, an official with the North American Farm Direct Marketing Association, said Salzwedel is the first “safety person” to receive her group’s Outstanding Leadership” award since it was first presented in 1992. “Marsha is very deserving of the honor,” Schwarzenbach said. “Her willingness and dedication to provide tools and feedback to fellow members for the betterment of their farms does not go unnoticed. She is a true asset to the industry.”

AUCTION OF CHAMPIONS RAISES \$205,000 FOR AG SAFETY, HEALTH

Black ties, formal dresses and ruby slippers were the proper attire for “A Night in Oz,” the theme for the 2015 Auction of Champions, held at RiverEdge Golf Course near Marshfield. The dinner event with live and silent auction packages raised \$205,000, and has now raised more than \$3.3 million for the Farm Center since 1982. “We receive tremendous support from community members, businesses and Marshfield Clinic Health System employees annually at Auction of Champions,” said NFMC Director **Matthew Keifer, M.D.** “This supports our mission of conducting agricultural research and promoting a safe and healthy working environment for everyone in agriculture.”

RURAL HEALTH DEVELOPMENT COUNCIL MEETS AT MARSHFIELD

The Wisconsin Rural Health Development Council held its March meeting at Marshfield Clinic. The theme was Community Health Workers. **Iris Reyes** and **Yurany Ninco Sanchez** presented, “Seguridad en las Lecherías project: The role of community health workers in sustaining safe practices in an occupational setting.” The Rural Health Development Council was established in 1989 for the purpose of making recommendations to the Department of Commerce on ways to improve the delivery of health care in rural communities.

FARM CENTER HOSTS AGRABILITY SUMMIT

The AgrAbility of Wisconsin Summit was held March 19 in Froehke Auditorium on the Marshfield Clinic campus. AgrAbility of Wisconsin is a partnership that combines the disability expertise of Easter Seals Wisconsin with the educational networking capabilities of the UW-Extension to provide a comprehensive program for farmers and their families affected by disabilities. AgrAbility helps farmers and their families continue to farm safely and successfully.

FURTHERMORE

The President's Malaria Initiative (PMI), credited with dramatic reductions in child mortality in sub-Saharan Africa, selected **Dr. Matthew Keifer** to advise on how best to monitor pesticide applicators for over-exposure to the anti-malaria chemicals they apply. Dr. Keifer traveled to Ghana to set up the program.

Dr. Keifer, a member of the Environmental Protection Agency's (EPA) Pesticide Program Dialogue Committee, is proposing that EPA require biomonitoring and diagnostic tools be developed and submitted as part of the approval process for new chemicals so that physicians will have the necessary tools to diagnose pesticide overexposure. As a member of the International Joint Commission's Health Professionals Advisory Board, **Dr. Keifer** co-authored a Request for Information about how data from social media might be used to help characterize individuals' and populations' health and sense of well-being. Dr. Keifer also is on boards that advise the Agricultural Health Study, and the Oregon Health Sciences University worker health project.

Barbara Lee, Ph.D., a leader in the establishment of Agricultural Safety and Health Council of America (ASHCA) in 2007, helped the organization transition its headquarters to Washington, D.C., where Frank Gasperini, National Council of Ag Employers, took over as president. Lee continues to serve on the ASHCA Board of Directors. **Dr. Lee** also serves on the Safety in Agriculture

for Youth (SAY) Steering Committee, the National ROPS Program Advisory Board, and the NIOSH National Occupational Research Agenda National Committee.

Marsha Salzwedel, M.S. served on the Certified Safe Farm Consortium Advisory Board, National Agritourism Professionals Association Board, the NCERA 197 Committee and the Wisconsin Agricultural Tourism Association Board.

Amy K. Liebman, M.P.A., M.A., chaired the American Public Health Association Occupational Health and Safety Section. She also served on the EPA's Pesticide Program Dialogue Committee and the AgriSafe Network Board of Directors.

Yurany Ninco Sanchez, R.N., was featured as one of "30 Clinicians Making a Difference," in Migrant Clinicians Network's 30th anniversary celebration. The article focused on her service to immigrant and migrant populations through the Seguridad en las Lecherías project, and in her previous job at Family Health/La Clinica in Wautoma, Wis.

Iris Reyes, M.P.H., co-chaired the American Public Health Association Occupational Health and Safety Scholarship Committee.

Scott Heiberger served on the International Society for Agricultural Safety and Health Board of Directors.

Bryan Weichelt, M.S., M.B.A., had five abstracts accepted for presentations as first author. Weichelt also developed and then distributed the Community Based Agriculture booklets to more than 100 school and community gardens across the nation. In December, Weichelt defended his proposal and advanced to Ph.D.-Candidate status as a student in the University of Wisconsin-Milwaukee Biomedical and Health Informatics program. Weichelt and his wife Stacey run an active Farmers Market in Stratford, Wis., which has led to connections that have aided his work at NFMCC.

Casper Bendixsen, Ph.D., is Co-Principal Investigator on a Centers for Disease Control project (through the Marshfield Clinic Research Foundation Epidemiology Center), to try and improve human papillomavirus (HPV) vaccination rates in the Marshfield Clinic system. Dr. Bendixsen is interviewing patient parents about their decision making processes specifically regarding the HPV vaccination series. The work will help explain what convinces parents to have their children start the vaccination series early and finish the series once they've begun.

PUBLICATIONS

Evans J, **Heiberger S**. Fitting farm safety into risk communications teaching, research and practice. *Journal of Applied Communications*. 2015;99(3):68-80.

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Pickett W, King N, Trask C, Michaelson V, **Marlenga B**, Hagel L, Dosman J. Factors related to self-perceived health in rural men and women. *J Agromedicine*. 2015;20(2): 178-187.

Searles Nielsen S, Checkoway H, Zhang J, Hofmann JN, **Keifer MC**, Paulsen M, Farin FM, Cook TJ, Simpson CD. Blood -synuclein in agricultural pesticide handlers in central Washington State. *Environ Res*. 2015 Jan; 136:75-81.

VanWormer JJ, Holsman RH, Petchenik JB, Dhuey BJ, **Keifer MC**. Epidemiologic trends in medically-attended tree stand fall injuries among Wisconsin deer hunters. *Injury*. 2016 Jan;47(1):220-5. Epub 2015 Sep 28.

Weichelt B, **Bendixsen C**, **Salzwedel M**, **Lee B** (Eds.) *Community-Based Agriculture: Safety Guidelines for Youth Working in Gardens*. 2015. Marshfield Clinic, Marshfield, WI.

PRESENTATIONS

Agricultural Safety Connection

January 8, Stevens Point, WI
"English as a Second Language"
Yurany Ninco Sanchez

Iowa Fruit and Vegetable Growers Conference

January 29-30, Ankeny, IA
"Integrating Safety into your Operation: the 'Hands-On' Approach"
Marsha Salzwedel

"When the Unexpected Happens: How to Prepare for Emergencies"
Marsha Salzwedel

North American Farm Direct Marketing Association

February 1-6, Nashville, TN
Workshop "Safety? So What?" Sessions:
• And the Survey Says ...
• Why Should I Do That?
• I Didn't See That ...
Marsha Salzwedel

Federation of Southern Cooperatives

February 5, Albany, GA
"Agricultural Health and Safety"
Matthew Keifer

Farm First Dairy Cooperative

Feb 13, Onalaska, WI
"Welcome to Farming and the Things Around Us"
Carol Brotski

Nebraska Agri/Eco-Tourism Workshop

February 23-27, Sydney, NE
"Safety? So What?"
Marsha Salzwedel

"Emergency! How Do I Plan for That?"
Marsha Salzwedel

Corn Party - The Maize Company

March 4-7, Albany, NY
"Keeping the Worst from Happening and Being Ready to Properly Respond if it Does"
Marsha Salzwedel

Governor's Rural Health Development Council Meeting

March 5, Marshfield, WI
"Seguridad en las Lecherias project: The role of community health workers in sustaining safe practices in an occupational setting"
Iris Reyes and Yurany Ninco Sanchez

Central WI Business Alliance

March 17, Columbus, WI
"Farm Safety: Making it Work"
Matthew Keifer

Wisconsin Association of Mutual Insurance Companies (WAMIC)

March 19, Waunakee, WI
"WAMIC Districts 1, 2, 3, and 4 Spring Meeting"
Casper Bendixsen

Annual Meeting of Society for Applied Anthropology

March 24-28, Pittsburgh, PA
"Agricultural Health and Safety: The Cultural Approach"
Casper Bendixsen

Wisconsin Agricultural Tourism Association Summit

March 30, Wisconsin Dells, WI
"Agritourism: Inspecting for Hazards and Safety Issues"
Marsha Salzwedel

Moral Cultures of Food

April 2-4, Denton, TX
"Intervention through Inquiry: Using Ethnography to Promote Safe Agricultural Practices among New and Beginning Farmers and Ranchers"
Casper Bendixsen

Central States Anthropological Society

April 9-11, Minneapolis, MN
"Letting the Corn Stand: Veblen and the Ethics of US Agriculture"
Casper Bendixsen

Florida Agritourism Safety Workshop

April 15-16, Chicago, IL
Workshop: "Agritourism Safety" Sessions:
• Introduction to Farm Safety
• Farm Tour and Inspections
• Inspection Review and Discussion
• Emergency Planning
Marsha Salzwedel

National Women In Agriculture 2015 Symposium

April 17, Knoxville, TN
"Ag Health and Safety: An Introduction"
Casper Bendixsen

Veterans of Foreign Wars (VFW) District Meeting

April 26, Marshfield, WI
"Veterans to Farmers"
Casper Bendixsen

Wisconsin Agricultural Tourism Association (WATA) Educational Seminars

April 28, Barron, WI
April 30, May 14
"Agritourism Safety"
Marsha Salzwedel

Environmental and Occupational Health Training

April 30, University of WI, Madison, WI
"Agricultural Health and Safety for Veterinarians on Farms"
Matthew Keifer

Wisconsin Agricultural Tourism Association (WATA) Educational Seminars

April 30, Manitowoc, WI
"Agritourism Safety"
Marsha Salzwedel

Wisconsin Agricultural Tourism Association (WATA) Educational Seminars

May 14, Platteville, WI
"Agritourism Safety"
Marsha Salzwedel

National Occupational Injury Research Symposium

May 19-21, Kingwood, WV
"Challenges and successes of a farm safety consultation program to identify hazards and prevent injuries"
Iris Reyes

"Immigrant Workers in Dairy A Health and Safety Intervention Using the Community Health Worker Model in an Occupational Setting"
Iris Reyes

WI Public Health Association (WPHA)

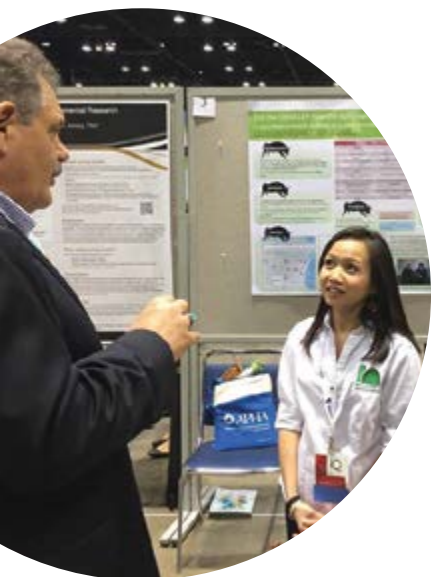
May 19-21, Wisconsin Dells, WI
Lessons learned from implementing a Spanish-speaking promotor program in the workplace
Yurany Ninco Sanchez

Farm Medicine, Rural Health and Safety

May 20, Marshfield, WI
"National Farm Medicine Center Highlights and Future Directions"
Matthew Keifer

"Who Will Feed Us in 2030?"
Casper Bendixsen

"Safeguarding the Next Generation of Farmers"
Barbara Lee and Bryan Weichert



National Migrant and Seasonal Head Start Conference Board Meeting

June 14, Washington, DC

"Protecting Children While Parents Work"

Amy Liebman & Juliana Simmons

International Society of Agricultural Safety and Health

June 22-24, Normal, IL

"Manisewaad: Partnering with Tribal Wardens to Improve Firewood Practices"

Casper Bendixsen

"Developing a Collection of Child Ag Injury News Clippings: Web-based News Clippings Database - NCC2"

Bryan Weichelt

"Natural Language Processing to Identify Farm Workers in an Electronic Medical Record"

Matthew Keifer

"Utilization of Survey Results to Update Agritourism Safety Materials"

Marsha Salzwedel

"Is the News Release Dead? One Center's Experience"

Scott Heiberger

National Association of Mutual Insurance Companies

July 14-16, Des Moines, IA

"Liability for Special Farm Events"

Marsha Salzwedel

"Insurance and Farm Safety Organizations: The Win-Win Combination"

Marsha Salzwedel, co-presented with Eric Vansdale

Wood County Farm Bureau

July 18, Arpin, WI

"Farm Safety and the WI ROPS Rebate Program"

Matthew Keifer

2015 Missouri Agritourism Conference

July 26-28, Springfield, MO

"Agritourism: How to Keep Visitors Safe on the Farm"

Marsha Salzwedel

University of Minnesota

August 7, Minneapolis, MN

"Migrant Worker Health"

Matthew Keifer

AgriSafe Webinar

August 11, online

"Stand T.A.L.L. (Talk, Ask, Learn, Live) - Instructional Materials to Empower Youth Working in Agriculture"

Marsha Salzwedel, co-presented with Amy Rademaker, Carle Hospital

Federation of Southern Co-ops/Land Assistance Fund Meeting

August 12-13, Birmingham, AL

"Farmer, Farm Worker and Farm Family Health and Safety"

Matthew Keifer

AgriSafe Webinar

September 14, online

"Learning to Use the 'Stand T.A.L.L.' Instructional Materials: A Train the Trainer Webinar"

Marsha Salzwedel, co-presented with Amy Rademaker, Carle Hospital

AgriSafe Webinar

September 23, online

"It's Harvest Season: Are the Children Safe?"

Marsha Salzwedel and Bryan Weichelt

143rd American Public Health Association Annual Meeting and Expo

October 31-November 3, Chicago, IL

"Culture of Safety and Other Useful Myths: Anthropological Work in Occupational Safety, Historically and Potentially"

Kathrine L. Barnes and Casper Bendixsen

"Nuance to Numbers: Transforming Unstructured Physical Therapist Field Data to Structured Farm Task Data for Injured/Ill Return to Work Software"

Bryan Weichelt

"Did the OSHA LEP miss the bull's eye on dairy farms? A score sheet of hazards identified by a safety consultation program in comparison to the OSHA LEP"

Iris Reyes

"Lessons learned from implementing a Spanish-speaking promotor program in the workplace"

Yurany Ninco Sanchez

American Academy of Pediatrics Meeting, Baltimore Chapter

November 3, Baltimore, MD

"An Overview of the Chronic Effects of Pediatric Pesticides Poisoning and Policy Implications"

Juliana Simmons

Midwest Injury Prevention Alliance Summit

November 9, Madison, WI

"Tracking the Tragic: US Ag Injury and Fatality News Clippings"

Marsha Salzwedel

American Medical Informatics Association Annual Symposium

November 14-18, San Francisco, CA

"A Not So Lame Outlook for Injured Farm Workers: Return to Work Software Application Development"

Iris Reyes

"User-Centered Design of an Application to Aid in the Safe Return to Work of Injured Farm Workers"

Andrea Mahnke

Midwest Rural and Agricultural Safety and Health (MRASH)

November 17-18, Decorah, IA

"A survey of Wisconsin dairy farmers and their Spanish-speaking workers about occupational health and safety issues"

Matthew Keifer

Annual Meeting of the American Anthropological Society

November 17-22, Denver, CO

"Veteran-to-Farmers: An Emerging At-Risk Population in Agricultural Health and Safety, Facing the Familiar Strange: Veterans' Life after the Military"

Casper Bendixsen

Minnesota Department of Agriculture to Minnesota Legislators, Departments of Health and Labor

November 18, Minneapolis, MN

"Wisconsin Rollover Protection Structures (ROPS) Rebate Program"

Barbara Marlenga



MAKE A GIFT

Every day, the team at the National Farm Medicine Center is working hard on behalf of farmers and rural residents through initiatives such as the Wisconsin Rollover Protective Structure Rebate Program, skin cancer screening and the Journal of Agromedicine.

However, these and other important programs would not be possible without philanthropic support from generous individuals, foundations and businesses who share NFMC's vision for a safer and more efficient agricultural workplace.

To join NFMC in its mission to save lives, prevent injury, and improve health within the agriculture industry, please consider a gift to support its work, or attend the Auction of Champions on September 15, 2016. To learn more, visit www.marshfieldclinic.org/giving or contact Marshfield Clinic Development.

By mail:

Marshfield Clinic Development
1000 N. Oak Avenue, 1R1
Marshfield, WI 54449

By phone:

715-387-9249 or 1-800-858-5220

By email:

giving@marshfieldclinic.org

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JOINING NFMCC



**Kathrine
Barnes,
M.S., M.P.H.**

Trained in medical anthropology and public health, Barnes, a research specialist, is working primarily with Casper Bendixsen, Ph.D., on the Beginning

Farmers and Ranchers, Farm Injury and Illness Surveillance, and Spheres of Influence projects. She conducts participant-observation fieldwork, interviews, and leverages existing data sets to more broadly impact farm safety and rural health. Barnes' background includes working on a variety of research projects at many levels, from data entry to co-principal investigator. Her research has been in substance abuse treatment communities and prescription drug abuse, in both urban and rural settings. She obtained her bachelor's degrees in anthropology and psychology from Texas Tech University and her master's degrees in anthropology and public health from the University of Wisconsin-Milwaukee.



**Emily
Redmond**

The Farm Center hired its first-ever research coordinator to assist with the Agricultural Safety Consulting service and the Seguridad en las Lecherías (Safety in Dairies) project.

Redmond, a 2013 graduate of the University of Wisconsin-Stevens Point, grew up in rural Pittsville, Wis. She majored in sociology at UW-Stevens Point, with minors in anthropology and environmental studies. She comes to the Farm Center from the Marshfield Clinic Research Foundation Clinical Research Center. Prior to that, she was a market development intern at the Midwest Renewable Energy Association (MREA) in Custer, Wis.



Lori Breitzke

The National Children's Center/National Farm Medicine Center is pleased to announce Lori Breitzke as its administrative secretary. Breitzke came to the Farm Center from Marshfield Clinic, where she worked in Financial

Services and as an education program specialist. Breitzke assists in all aspects of the Children's Center and Farm Center operations including scheduling, organizing daily activities, and assisting all members of the NFMCC staff with any needs.



**Marlene
Stueland**

In March 2015 Marlene Stueland resumed the role of Center Research Administrator for NFMCC, splitting time between NFMCC and the Center for Human Genetics. Stueland previously served as

NFMCC Center Administrator fulltime for six years. Since 2011 she had been fulltime with Human Genetics. Her responsibilities include administrative management, contracts and grants management, financial management and human resources management. A great percentage of her time is devoted to budget development for internal/external grant proposals. Stueland is active in the Marshfield area serving as President of the Marshfield School Board and on the Village of Hewitt Board.

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ACKNOWLEDGMENTS

The National Farm Medicine Center expresses its appreciation to the organizations and individuals that enable NFMC to stay ahead of evolving health and safety concerns in agriculture.

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