

RESEARCH AND  
WORKPLACE  
INNOVATION  
PROGRAM

2018 Report on Projects



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# OVERVIEW OF REPORT

This Report provides an update on the activities of the Research and Workplace Innovation Program (RWIP) in 2018. The Report is organized into four sections:

- New Grants Awarded
- Completed Projects
- Projects in Progress
- RWIP Approved Projects 2009 to 2018.

The RWIP offers grants on an annual and competitive basis to support projects on injury prevention, occupational diseases and illnesses and return to work of injured workers. Funding is awarded under three core funding streams:

- Scientific Research
- Training and Education
- Workplace Innovation.

Established in 2009, the RWIP makes available \$1 million in funding each year. Seventy-eight (78) projects were funded over the last ten (10) years. Appendix A shows RWIP Approved Projects from 2009 to 2018.



# NEW GRANTS AWARDED IN 2018

## SCIENTIFIC RESEARCH

### **IMPROVING DETECTION OF WORK-RELATED ASTHMA: VALIDATION OF THE WORK-RELATED ASTHMA SCREENING QUESTIONNAIRE - LONG VERSION**

Diane Lougheed,  
*Queen's University*

\$155,968

This study will develop a tool for the early detection of work-related asthma (WRA). The basis of this tool is the Work-Related Asthma Screening Questionnaire (Long Version) (WRASQ(L)). The researchers have partially tested the WRASQ(L), but more testing is needed to support the integration of the questionnaire into clinical practice. Primary care clinicians in Manitoba, Ontario and Quebec will conduct testing of the tool.

### **WORKPLACE, SUPERVISOR, WORKER AND ACCOMMODATION FACTORS ASSOCIATED WITH WORKERS' COMPENSATION OUTCOMES: AN ECOLOGIC STUDY**

Vicki Kristman,  
*Lakehead University*

\$195,400

This study will undertake a multi-level assessment of factors to obtain an enhanced understanding of return to work (RTW), the incidence of workplace injuries and the duration of injuries. This study will explore WCB claims relative to the characteristics of the firm and include factors for workplace accommodation and duration of time loss claims. The researchers will link data from an ongoing WCB-funded study with injury data from firms that will participate in this study.

### **RETURN TO WORK AFTER WORK INJURY IN THE HEALTHCARE SECTOR IN MANITOBA: THE ROLE OF WORKPLACE POLICIES AND PRACTICES**

Christopher McLeod,  
*University of British  
Columbia*

\$199,944

This study will assess policies and outcomes of supernumerary replacements in return to work (RTW) programs for the healthcare sector in Manitoba. Supernumerary placements are injured workers on modified duties paid by the WCB in a planned RTW program. The study will analyze disability management practices in Manitoba's healthcare sector during 2007 to 2018, conduct a qualitative study of supernumerary and non-supernumerary workers and undertake observational research to evaluate work disability management practices across healthcare authorities in Manitoba.



## TRAINING AND EDUCATION

### HEALTHY NAIL SALON WORKER PROJECT

Karen Hamilton,  
*MFL Occupational  
Health Centre*

\$103,194

The MFL Occupational Health Centre will deliver a Train the Trainer Program for Vietnamese workers at 12 nail salons in Winnipeg. Training will be delivered in four key areas: musculoskeletal injuries; respiratory issues; skin disorders; and reproductive health. The project will fill a knowledge gap by providing occupational health and safety training to this group of vulnerable workers.

## WORKPLACE INNOVATION

### FUNCTIONAL MOVEMENT SYSTEM - A PROACTIVE APPROACH TO IDENTIFY MOVEMENT DYSFUNCTION

Ruth Meltzer,  
*Saul and Claribel  
Simken Centre*

\$52,700

The objective of this project is to reduce frequency and severity of Musculoskeletal Injuries (MSI) among workers at the Simkin Centre, a 200-bed non-profit personal care home. Workers will be assessed using the Functional Movement System (FMS) to identify deficits and asymmetries in functional movement. The ultimate goal is to modify the identified movement deficits through individual corrective exercise activities to restore movement patterns.

### PROVIDING TOOLS TO BENCHMARK DISABILITY MANAGEMENT AND RETURN TO WORK PERFORMANCE IN CONSTRUCTION WORKPLACES IN MANITOBA

Mohamed Issa,  
*University of Manitoba*

\$131,522

This project builds on a previous research project conducted by the Construction Engineering and Management Group headed by Dr. Mohamed Issa at the University of Manitoba and funded by RWIP. The goal of the project is to provide the construction industry in Manitoba with free, accessible web-based tools that enable construction workplaces to benchmark their Disability Management and Return to Work performance in order to support continuous improvement. The Construction Safety Association of Manitoba and the Heavy Construction Association of Manitoba will assist the researchers with the recruitment of construction companies and will maintain the project resources upon completion of funding.



# PROJECTS COMPLETED IN 2018

## **IDENTIFICATION AND ANALYSIS OF SAFETY HAZARDS ON THE VIRTUAL CONSTRUCTION WORKSITE**

Chris Taran,  
*International Brotherhood  
of Electrical Workers Local  
2085*

\$96,000 awarded in 2016

The International Brotherhood of Electrical Workers Local 2085 (IBEW) partnered with the boilermakers, pipefitters, painters and other affiliated unions of the Manitoba Building and Construction Trades Council and developed a series of virtual reality (VR) training modules for youth and new entrants in construction. Five modules were developed: Slips, Trips and Falls; Struck by and Caught Between; Fire, Explosion and Toxicity Asphyxiation; Ergonomics, Elements and Noise; and Electrocution.

The project successfully developed a VR application which was released on Android and iOS. The immersive VR resources standardized the training curriculum for the electrical trades and can be widely disseminated via Internet connectivity. A VR Safety Toolkit and Facilitator Guide were released to assist trainers integrate VR resources into training programs. Each module was piloted and tested in schools and colleges in Manitoba and presented to representatives from industry, government and immigrant settlement agencies. The National Electrical Trades Council (NETCO) was appointed as the national distributor of this VR Safety app and it was presented at NETCO's 2017 training conference in Quebec. [The final project report and resources may be accessed here.](#)

## **EXPLORING THE NEW STANDARD: PSYCHOLOGICAL SAFETY IN THE WORKPLACE USING JOINT WORKPLACE HEALTH AND SAFETY COMMITTEES, RISK/HAZARD IDENTIFICATION, REDUCING THE HAZARD, EDUCATION, AND EVALUATION**

Maureen Grace,  
*Hamilton Grace  
and Associates*

\$35,393 awarded in 2015

This project implemented Canada's national standard for Psychological Health and Safety in the Workplace (the Standard) at Red River College (RRC). The project was undertaken by Hamilton Grace and Associates, a private consultancy firm and spearheaded by RRC's Joint Workplace Health and Safety Committee. The project included a risk assessment using the survey Guarding Minds @ Work.

The project successfully delivered four (4) core training programs reaching more than 334 staff at all levels of the organization. The training programs included: Verbal De-escalation Skills; Facilitating Difficult Conversations: New Approaches and Perspectives; safeTalk Suicide Alertness; and The Working Mind Mental Health Training.

The Changing Face of Communication, a workshop on respect and civility was delivered to 300 RRC staff. Complementary training courses were also delivered on Mental Health First Aid Training, LGBTTT Awareness and Gender and Sexuality Diversity Awareness.

[The project's final report may be accessed here.](#)



## STANDARDIZED & INTEGRATED SAFETY TRAINING FOR MANITOBA'S SKILLED TRADES

Sudhir Sandhu, *Manitoba Building and Construction Trades Council and Allied Hydro Council of Manitoba* and Paul Holden, *Manitoba Institute of Trades and Technology*

\$195,204 awarded in 2015

The Manitoba Integrated Standardized Safety Training (MISST) project conducted research leading to the development of a conceptual model that could guide the creation and implementation of a standards-based safety training system for Manitoba's skilled building trades. The project provided evidence that the safety training delivered for the skilled building trades in Manitoba varied in scope, content, method and duration and that workers often received safety training on the same topics multiple times. There was also evidence that employers did not have a standard tool to assess workers' safety knowledge and skills resulting in employers having to train, retrain and rely on their own internal systems to assess workers. The project also concluded that the legislative requirement for safety training in Manitoba lacks specificity when compared to Ontario and Newfoundland and Labrador. [The project's final report may be accessed here.](#)

## WORKSAFELY ONLINE PROGRAM

Don Hurst and Jackie Jones, *Manitoba Heavy Construction Association*

\$181,323 awarded in 2015

Manitoba Heavy Construction Association (MHCA) implemented an innovative project that digitized four safety courses from its WORKSAFELY Program. The digitized courses were: Flag Person Training; Personal Protective Equipment; Road Builders Safety Training Systems; and Prime Contractors. The revised training courses were shared with Industry Based Safety Programs, construction firms, vocational schools and colleges. The project showed that e-learning safety training programs that include digital media facilitate training of workers, especially new and young workers and distance delivery training to rural and remote locations. This project was successfully implemented because MHCA secured the participation and endorsement of industry partners for changes in the curriculum and modes of delivery of these four courses. [The final report and project resources may be accessed here.](#)

## HUMAN FACTOR FOCUSED MUSCULOSKELETAL INJURY PREVENTION TRAINING FOR CONSTRUCTION WORKERS

Marnie Courage, *Enabling Access Inc.*

\$63,540 awarded in 2014

This project developed and delivered training aimed at the prevention of musculoskeletal injuries (MSI) for construction workers in the building trades and heavy construction sub-sectors. The project delivered MSI training to 480 construction workers in six small, two medium and two large construction firms between March 2015 and December 2017. On-site job evaluations and practical MSI prevention solutions were implemented for the 10 construction firms that participated in the project. Training resources were developed that incorporated Ergonomic Risks and Situational Awareness into MSI injury prevention training for the construction sector. These resources are "Creating and Leading Customized Toolbox Talks" and "Shoveling Aggregate." [The project's final report and resources may be accessed here.](#)



## **SAFETY KNOWLEDGE SHARING BEFORE RETIREMENT: AN EXAMINATION OF RETIRING EMPLOYEES' ATTITUDES, INTENTIONS AND BEHAVIOURS**

Nick Turner, Krista Uggerslev  
and Kasey Martin,  
*Asper School of Business,  
University of Manitoba*

\$60,771 awarded in 2012

The study explored how workers with experience shared safety-related knowledge with novice workers in various culinary trades. The study surveyed trainees, instructors and work-placement chefs in the Northern Alberta Institute of Technology and Red River College, Winnipeg, Manitoba. The title of this project was changed to “Safety Knowledge Sharing in the Culinary Trades.”

The study found that among workers in the culinary trades, safety knowledge sharing was socially constructed, real safe work practices were acquired through practical experiences in the workplace and learning safe working practices happened through socialization and participation in a community of practice. There was a difference in the theoretical learning of workplace safety at school and the actual practice of workplace safety at work. [The final project report and resources may be accessed here.](#)



# PROJECTS IN PROGRESS

## **DEVELOPMENT OF A PRE-PRODUCTION MSI CHECKLIST: RELIABILITY, VALIDITY AND EDUCATION**

Andrew Dolhy,  
*A. Dolhy Ergonomics Inc.*

\$49,100 awarded in 2017

Work is under way in this innovative project in reviewing and modifying the pre-production ergonomic risk-rating checklist at Motor Coach Industries (MCI). The project has developed an experimental assessment tool and completed full ergonomic assessments of MCI's pre-production tasks. Initial pilot testing has shown positive outcome scores for low-risk and high-risk tasks. Testing of the experimental assessment tool will continue and work is ongoing on the development of a user manual and a feedback assessment tool.

## **ELECTRICAL SAFETY FOR THE ELECTRICAL WORKER**

Robert Semchyshyn  
and Jason Rice, *Electrical  
Association of Manitoba  
Inc.*

\$164,900 awarded in 2017

A Project Advisory Committee has been established with key stakeholder representation from labour, industry, public sector and training providers. Work is ongoing to develop five training courses to reduce the risk of injury to electrical workers, improve safety culture in the electrical community and fill a gap in the current training offered to electrical workers in Manitoba. The first training course, Electrical Legislation for the Electrical Worker, has been successfully completed and a course on Personal Protective Equipment will be piloted early in 2019.

## **MINDFULNESS BASED INTERVENTION AS A KEY COMPONENT OF SUCCESSFUL WORKPLACE FUNCTIONING AND PERSONAL WELL-BEING FOR FREQUENTLY ABSENT EMPLOYEES**

Michael McIntyre,  
*St. Boniface Hospital  
Research Centre*

\$169,626 awarded in 2017

Work is underway and continuing in the evaluation of the efficacy of the Mindfulness Based Stress Reduction (MBSR) program among workers who experience frequent workplace injuries, re-injury, recurrent illnesses and absences from work. Workers from Action Marguerite, St. Amant and the Healthcare Employee Benefit Plan are being recruited for the study's sample. The ethics approval for the study has been initiated and evaluation measures are currently being reviewed based on new information received from an earlier MBSR study of healthcare workers. Following ethics approval, two sections of the MBSR course will be offered at St. Boniface Hospital and St. Amant.



## **RESPIRABLE CRYSTALLINE SILICA IN THE MANITOBA CONSTRUCTION SECTOR: ADVANCING KNOWLEDGE TO REDUCE EXPOSURE**

Hugh W. Davies and  
Melanie Gorman-  
Ng, *University of British  
Columbia*, and Jérôme  
Lavoué, *University of  
Montreal*

\$195,792 awarded in 2017

Work is in progress for the assessment of worker exposure to Respirable Crystalline Silica (RCS). The Construction Safety Association of Manitoba is working with the research team to obtain worksites for the study. The project has successfully recruited an industrial hygienist for the six months fieldwork. Staff training and field sampling is underway and continuing. Over 50 silica samples have already been obtained for analysis. The risk assessment tool developed by the British Columbia Construction Safety Alliance, WorkSafe BC and the University of British Columbia is being utilized for RCS assessments of the selected construction sites.

## **THE EPIDEMIOLOGY AND MULTI-DISCIPLINARY MANAGEMENT OF WORK-RELATED CONCUSSION – HOW CAN WE MEET THE NEEDS OF MANITOBA'S WORKERS?**

Kelly Russell, Michael Ellis,  
Lesley Ritchie, James  
Bolton, Jeffrey Leiter,  
*University of Manitoba*

\$199,273 awarded in 2017

In March 2018 the study received Ethics Board approval from the University of Manitoba. Patient recruitment began in March and was facilitated through posts about the project on the WCB of Manitoba's website. Work continues on data collection, data entry and cleaning. This study is utilizing a prospective case series research design to identify clinical risk factors, changes in post-concussion symptoms, post-injury mental health outcomes, Return to Work status and long-term disability.

## **WORKPLACE DIESEL EXHAUST EXPOSURE: DEFINING A BIOSIGNATURE TO SUPPORT PREVENTION**

Chris Carlsten, *University  
of British Columbia* and  
Neeloffer Mookerjee,  
*University of Manitoba*

\$198,400 awarded in 2017

The study was launched following ethics approval by The University of British Columbia, Office of Research Ethics. Participants were enrolled and samples collected for exposure testing. Testing has been delayed due to forest fires in British Columbia in the summer and will be rescheduled over the coming months. Anticipated challenges from previous experiences also include the common flu season when many trials have to be delayed due to viral infections. This study is creating a clinically relevant measure to assess the impact of diesel exhaust exposure on workers' lung health using proteomic analysis and identifying biomarkers to show the relationship between exposure concentrations and the effects on blood, urine and respiration. The study team is utilizing the new protein mapping facility at the Manitoba Centre for Proteomics and Systems Biology, University of Manitoba, and the exposure chamber at the Air Pollution Exposure Laboratory in Vancouver.



## **BUILDING SUPPORT FOR NEWCOMER WORKERS IN THE FOOD PROCESSING INDUSTRY**

Karen Hamilton,  
*MFL Occupational  
Health Centre*

\$105,704 awarded in 2016

This project is providing a ten-week training program in occupational health and safety to newcomer workers from the Eritrean and Chinese communities delivered in the first language of these workers. The program provides newcomer workers the opportunity to share their safety experiences in an Occupational Health and Safety Group (OHSG). The Eritrean and Chinese OHSG have been set up and safety training completed. The training model for the OHSG is the Life Story Board developed by Dr. Robert Chase from the MFL Occupational Health Centre. Dr. Chase and the Project Coordinator have interviewed six workers from the Eritrean group using the Life Story Board. Transcripts have been prepared and preliminary analysis of the transcripts has begun. Five workers from the Chinese OHSG have also been scheduled for Life Story Board interviews. Through the use of symbols and words, the storyboard illustrates many of the challenges newcomer workers face as a result of communication barriers, cultural differences and fear.

## **DEVELOPMENT OF BENCHMARKING REPORTS AND A DASHBOARD TO CHANGE THE CONVERSATION IN CONSTRUCTION**

Ben Amick, *Institute for  
Work and Health*, and Mike  
Jones, *Construction Safety  
Association of Manitoba*

\$198,190 awarded in 2016

The Institute for Work and Health in partnership with the Construction Safety Association of Manitoba is developing a dashboard of leading indicators on injury and illness prevention in the construction sector. The survey of construction firms is ongoing and 842 surveys of construction firms have been completed. Also completed was the content of the benchmarking report, validation of claims cost data and advertising for project recruitment. Work is in progress to recruit hard to reach small and very small construction firms to participate in the project. Also in progress is work to link survey data to the WCB data, complete pilot testing of the dashboard, data analysis and reports to participating construction firms on their safety performance.

## **IDENTIFICATION OF NEUROIMAGING-BASED BIOMARKERS IN THE TREATMENT OF POST-TRAUMATIC STRESS DISORDER**

Ronak Patel and Ji Hyun Ko,  
*University of Manitoba*

\$199,464 awarded in 2016

Work is in progress to collect information from 57 survey participants for the study. Cognitive therapy group sessions were carried out under the direction of Dr. Gillian Alcolado and preliminary neuroimaging data of 18 participants has been analyzed. Work is ongoing to increase recruitment of study participants as well as the analysis of neuroimaging of data. The study is continuing to examine neurobiological changes that occur in patients diagnosed with post-traumatic stress disorder using imaging-based biomarkers.



## **INTO ACTION: PSYCHOLOGICAL SAFETY TRAINING FOR MANAGERS**

Joel Gervais and  
Jolen Galaugher,  
*Vital Life Inc. Winnipeg*

\$97,480 awarded in 2016

CBI Health Centre formerly Vital Life Inc. Winnipeg is providing mental health and addictions training to managers, human resource personnel and health and safety representatives in the oil, gas and mining, agriculture and healthcare sectors. The project team has finalized the Resource Guides for the three targeted sectors and completed the development of supporting resources for the training. The project team had made modifications to the format of the training to include other groups for example safety officers and also simplified the evaluation questionnaire issued at the end of training sessions. Fourteen manager training sessions and 15 “Lunch and Learn” workshops have been delivered to workers in the healthcare sector. Policy and Prevention workshops were delivered to representatives in the oil, gas and mining, agriculture and healthcare sectors.

## **MANAGEMENT OF POST-TRAUMATIC STRESS DISORDER: A MULTIPLE TREATMENT COMPARISON META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS**

Jason W. Busse,  
*McMaster University*

\$158,243 awarded in 2016

Work is in progress on the systematic review of the literature on post-traumatic stress disorder (PTSD) that gives focus to Functional Recovery and Return to Work. The scope of the review has been broadened to include trials that report on return to work and reduction in PTSD symptoms. The systematic review has identified 367 articles that will be reviewed fully for data extraction and analysis. The stakeholder advisory group provided feedback on sub-groups that may be of interest at the Data Extraction and Appraisal phase of the study. The “Grading of Recommendations Assessment Development and Evaluation” system will be used to evaluate the data. The study’s outcomes will guide evidence-based management of patients, identify new areas of inquiry for research and practice and develop new educational tools for patients and clinicians.

## **ONLINE AND CLASSROOM DELIVERED MINDFULNESS-BASED COGNITIVE BEHAVIOUR THERAPY COURSE FOR BUILDING WORKPLACE RESILIENCE: A PILOT RANDOMIZED CONTROLLED TRIAL**

Jitender Sareen,  
*Health Sciences Centre*

\$199,775 awarded in 2016

This study is undertaking the delivery of the Mindfulness-Based Cognitive Behaviour Therapy to members of the police force, firefighters, paramedics and nurses. The goal of the project is to prevent post-traumatic stress disorder and related conditions by providing strategies to reduce symptoms of mood and anxiety disorders. The project team is recruiting representatives from the target occupations for membership on the Project Advisory Committee and Project Steering Committee. Terms of reference have been developed for each committee.



## PERCEPTIONS AND EXPERIENCES OF TRAUMA WITHIN UNDERGRADUATE NURSING EDUCATION

Kathryn Chachula,  
Brandon University

\$56,409 awarded in 2016

Work on this study is progressing and the interviews with participants almost completed. The questionnaires from these interviews are being transcribed to enable the preliminary analysis of data. This study is investigating experiences and perceptions of trauma among new nursing graduates in the Bachelor of Nursing and Bachelor of Psychiatric Nursing student population at Brandon University (BU). The study's goals are to change educational policy and assessment services at BU and build coping techniques and resiliency-enabling behaviours for student nurses at BU.

## USING TECHNOLOGY TO IMPROVE SAFETY PRACTICES FOR HIGH RISK HAZARDS IN CONSTRUCTION

Mike Moore,  
Manitoba Home  
Builders Association

\$109,900 awarded in 2016

Work is progressing on schedule in the digitalization of four safety courses using virtual reality technology for Manitoba Home Builders Association safety training courses. The Confined Space and Fall Protection courses were completed in 2017, the Scaffolding Awareness course completed in 2018. Work has begun on the development of the Safe Use of Power Tools. BIT Space Development, a Winnipeg-based company, is providing the technology for this project. Use the links below to view the completed project resources that are currently available.

### Scaffolding Awareness

1. <https://play.google.com/store/apps/details?id=com.bsd.scaffolding>
2. <https://itunes.apple.com/us/app/mhba-scaffolding-awareness/id1351357767?mt=8>

### Fall Protection Awareness

1. <https://play.google.com/store/apps/details?id=com.BSD.FallProtection>
2. <https://itunes.apple.com/us/app/mhba-fall-protection/id1279854422>

### Confined Space Awareness

1. <https://play.google.com/store/apps/details?id=com.bsd.confinedspace360>
2. <https://play.google.com/store/apps/details?id=com.bitspacedevelopment.confinedspaceandroidcardboardvr>

### Screen Shots

1. <https://itunes.apple.com/us/app/mhba-scaffolding-awareness/id1351357767?mt=8>



## **DEVELOPMENT OF A COMPREHENSIVE TOOLKIT FOR EVALUATING WORKPLACE MUSCULOSKELETAL INJURY INTERVENTIONS: SWINE INJECTION TECHNOLOGIES AS A TEST CASE**

Catherine Trask, Brenna Bath, Stephan Milosavljevic, Aaron Kociolek, Bernardo Predicala, Lee Whittington and Erika Penz,  
*University of Saskatchewan*

\$119,650 awarded in 2015

Work is ongoing to complete statistical analysis of exposure data in hog barns. Preliminary analysis shows that the net benefit of needle-less injection was slightly higher than conventional needles and accumulates over time, the conventional method is beneficial for barns with 400 sows or less, and that needle-less injection duration was 40% faster once workers were acclimatized. Recruitment is in progress for interviews with managers and workers on their experiences and opinions of needle-less injections. The questionnaires for these interviews have been developed. The study team will soon begin the development of the decision-making model that would determine the total cost/benefit of implementing needless injection technology in hog barns. This study is developing a comprehensive toolkit to evaluate workplace injuries caused by musculoskeletal injuries and ergonomic risks among workers in the pork industry in Manitoba and Saskatchewan.

## **ENGAGING AN ORGANIZATION IN THE PREVENTION OF WORK RELATED INJURIES**

Kim Roer,  
*St. Boniface Hospital*

\$57,056 awarded in 2015

This project is undertaking enhancements to the Occupational Health and Safety Incident Tracker system currently in use at St. Boniface Hospital (SBH). The central visual display set up for all staff at SBH will provide information on the cause of injury, physical location of incidents, body part affected and information on how to prevent these incidents. Organizational changes at SBH have delayed the project but a complete re-launch of the pilot has been implemented with the program being extended to additional units in the hospital that experience higher than average injury rates.

## **MENTAL HEALTH OUTCOMES FOLLOWING WORKPLACE INJURY**

Sarvesh Logsetty, *University of Manitoba*, Jitender Sareen, James Bolton and Allen Kraut, *University of Manitoba*, and Dan Chateau, *Manitoba Centre for Health Policy*

\$199,966 awarded in 2015

This study is investigating mental illness following a workplace injury. It will determine if the mental illness is an outcome of the workplace injury or is a result of other causes. A data sharing agreement between the parties was completed in October 2018 and project and scientific advisory committees are now in place.



## **SUPERVISOR AND WORKER PERSPECTIVES ON WORKPLACE ACCOMMODATIONS FOR MENTAL HEALTH**

Vicki Kristman, *Lakehead University*, Marc Corbière, *Université du Québec à Montréal*, William Shaw, *Liberty Mutual Research Institute for Safety*, Karen Harlos, *University of Winnipeg*, and Margaret Cernigoj, *Workplace Safety & Prevention Services, Mississauga, Ontario*

The study team has successfully completed the development of the Job Accommodation Scale for Mental Health and has completed the data collection, validation and analysis of the survey results. Final project outcomes will be presented to stakeholders early in 2019. This study is examining the factors that support workplace accommodations for workers with a mental health disorder from the perspectives of supervisors and workers.

\$170,839 awarded in 2015

## **A KNOWLEDGE TRANSFER INTERVENTION WITH SUPERVISORS: CAN WE REDUCE INJURY BY IMPROVING KNOWLEDGE TRANSLATION STRATEGIES FOR DIRECT SUPPORT WORKERS OF PEOPLE WITH INTELLECTUAL DISABILITY WHO DISPLAY CHALLENGING BEHAVIOUR?**

Beverley Temple, *University of Manitoba and St. Amant Research Centre*, Toby Martin, Jennifer Kilimnik, *St. Amant Centre*, Charmayne Dube, *New Directions*, and Lisa Demczuk, *University of Manitoba*

In partnership with the University of Manitoba and St. Amant Centre this study is investigating the impact of knowledge translation initiatives on the retention of training knowledge and the practical utilization of training given to frontline staff who work with clients with developmental disabilities at St. Amant. The methodology for the study is the "Promoting Action on Research Implementation in Health Services" framework. Phase One and Phase Two of the study are completed. Analysis of data is on-going and a final report is expected in 2019. This study is a sequel to a study undertaken in 2011.

\$180,000 awarded in 2014

## **DETERMINING THE INFLUENCE THAT THE WCB OF MANITOBA'S OPIOID POLICY HAS HAD ON PRESCRIPTION OPIOID USE AMONGST WCB RECIPIENTS**

Allen Kraut and Leigh Anne Shafer, *University of Manitoba*, and Colette Raymond, *Manitoba Centre for Health Policy*

This study is comparing opioid usage and physician prescribing practices between injured workers receiving WCB benefits and other Manitobans before and after the changes made to WCB Policy 44.120.20, Opioid Medication. A data sharing agreement between the parties was completed in October 2017, marking the start date for the project. In January 2018, the study received Ethics Board approval from the University of Manitoba. In December 2018, the researchers received the anonymized data from the Manitoba Centre for Health Policy.

\$54,470 awarded in 2014



## INDUSTRY-BASED SAFETY ASSOCIATIONS, PHASE TWO

SAFE Work Manitoba

\$300,000 awarded in 2014

SAFE Work Manitoba's strategic priorities highlight the important role of industry-based safety associations in strengthening workplace safety and health practices. Industry-Based Safety Programs (IBSP) have been set up for the manufacturing, transportation, agriculture and oil and gas industry sectors. The IBSP include: WORKSAFELY under the Manitoba Heavy Construction Association; Made Safe in the manufacturing sector; RPM Trucking Industry Safety Program under the Manitoba Trucking Association; S2 Safety Sales and Service Safety Association under the Motor Vehicle Association of Manitoba; and the Manitoba Farm Safety Program. The development of an additional two IBSP is contemplated by the project. To this end SAFE Work Manitoba continues to engage with leadership from other industry sectors interested in the establishment of new IBSP.

## INTERVENING IN THE TRANSPORTATION SECTOR TO REDUCE DRIVER FATIGUE, LOW BACK PAIN AND DISCOMFORT AND TO INCREASE VEHICLE SAFETY

Phillip Bigelow, *University of Waterloo*, Jim Dickey, *Western University*, and Emile Tompa, *Institute for Work and Health*

\$127,098 awarded in 2014

With the support of Bison Transportation and the Manitoba Trucking Association, this study is investigating the relationship between the exposure of truck drivers to whole body vibration (WBV) caused by different types of truck seats and the effects on fatigue, low back pain and disability. The final stages of data collection have been delayed due to significant unforeseen circumstances. The project has been extended to early 2019 to complete data collection and analysis and the final project report.





# RWIP APPROVED PROJECTS 2009 TO 2018

Revised funding may occur in two ways. Frequently the entire original funding is not required for the successful completion of a project, resulting in a decreased funding amount. Occasionally a grant recipient may request an increase in funding. The Administration may approve increases up to \$20,000 as long as the total project cost does not exceed \$200,000. Increases in excess of those amounts are subject to Board approval.

FUNDING STREAM	NUMBER OF PROJECTS	ORIGINAL APPROVED FUNDING	COMPLETED	CANCELLED	NEW PROJECTS APPROVED IN 2018	IN PROGRESS	REVISED FUNDING
Scientific Research	33	\$4,852,546	16	1	3	13	\$4,722,307
Training and Education	11	\$1,215,997	7	0	1	3	\$1,223,240
Workplace Innovation	21	\$2,609,251	14	1	2	4	\$2,261,709
Partnerships	5	\$545,605	5	0	0	0	\$525,889
Special Funding	3	\$568,190	1	0	0	2	\$568,190
Request for Proposals	5	\$324,875	4	1	0	0	\$359,710
<b>Totals:</b>	<b>78</b>	<b>\$10,116,464</b>	<b>47</b>	<b>3</b>	<b>6</b>	<b>22</b>	<b>\$9,661,045</b>





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