

PRESIDENT'S REPORT: March 21, 2017

GENERAL

Late in January, the University of Manitoba community came together at the Fort Garry and Bannatyne campuses to discuss the impact of the U.S. executive order, banning travel to the United States from seven Muslim-majority countries, and the shooting at a mosque in Quebec that resulted in the death of six men and injuries to another 19. The events reinforced the values shared in the University of Manitoba community to diversity, and to safe spaces for the free exchange of ideas and knowledge. Those affected have been directed to supports ranging from counselling to financial assistance, available through a range of University offices.

The Government of Canada and Province of Manitoba announced \$36 million in funding on January 24 to support the development of the University of Manitoba Smartpark Innovation Hub, as well as the new Stanley Pauley Engineering Building. \$32 million will come from the federal government's Post-Secondary Institutions Strategic Investment Fund (SIF) and \$4 million from the Government of Manitoba. The Smartpark Innovation Hub will be an information exchange centre that will encourage further partnerships between industry, government and the University and will include new space for the laboratories, provide rentable space for companies, and be home for SmartPark's North Forge incubator. The construction of the Stanley Pauley Engineering Building will promote greater industry collaboration.

On February 28, the University of Manitoba hosted the UM 140 Celebration for students, faculty and staff, alumni and community members. Over 3,000 attendees participated in the day-long event, which included a Sunrise Ceremony at the National Centre for Truth and Reconciliation, Pancake Breakfasts at the Brodie Atrium and UMSU University Centre, a Winter Festival at Chancellor's Circle, and a Retirees' Coffee & Conversation event at Marshall McLuhan Hall. The formal ceremony at the Winter Festival Kick-off included remarks from President Barnard, Premier Brian Pallister, Minister Jim Carr, Senator Patricia Bovey, Mayor Brian Bowman, Board of Governors Chair Rennie Zegalski, Alumni Association President Kim Metcalfe, UMSU President Tanjit Nagra and GSA President Enoch A-lyeh. Attendees at the event included Minister Ian Wishart, Terry Duguid, MP, Winnipeg South, and President Emeritus Emőke Szathmáry. More information may be found here: <https://uofm140.cc.umanitoba.ca/>

On March 6, AESES and the Office of the President hosted the 15th annual International Women's Day Dinner, this year featuring a keynote address by Dr. Deborah Stienstra, professor in the department of disability studies, entitled "Implicating Inclusion: Women with Disabilities as Visionaries, Innovators, and Pioneers". The event offered members of the University of Manitoba community a unique opportunity to consider matters of inclusion, accessibility, equity and disability rights.

The 2017 Distinguished Alumni Award recipients have now been publicly announced and they are an impressive group of individuals who have demonstrated outstanding achievement both professionally and personally. The 2017 recipients are John and Patricia Patkau (Lifetime Achievement), Reva Stone (Professional Achievement), Sister Lesley Sacouman (Community Service), Isabella Wiebe (Service to the University of Manitoba) and Desiree Scott (Outstanding Young Alumni). The Celebration of Excellence will be held on May 2, 2017 at the Metropolitan Event Centre.

ACADEMIC MATTERS

- Dilantha Fernando, plant science, was honored by the University of Southern Queensland as the 2017 Eminent Visiting Scholar for his scholarly research and recognition in host-pathogen interactions in wheat and canola.
- A monthly film series - The Decolonizing Lens - co-organized by Jocelyn Thorpe (Women's & Gender Studies) and Kaila Johnston (National Centre for Truth and Reconciliation) was held on February 13. This series brings together Indigenous filmmakers, special guests, and their audiences, and is held at Cinematheque.
- The Community Health Nurses of Canada endorsed the University of Manitoba's curriculum that teaches non-dental health-care providers how to screen for and co-manage diseases and conditions of the mouth. The curriculum was developed by the Faculty of Health Sciences' International Centre for Oral-Systemic and available to programs across the country.
- The College of Pharmacy welcomed hundreds of pharmacy students from across Canada to Professional Development Week, a national student-led conference. This year's theme, "Beyond Boundaries," reflected the ever-changing nature of the pharmacy profession.
- The College of Nursing hosted more than 400 nursing students from across Canada at the Canadian Nursing Students' Association 2017 national conference. The theme of the student-run conference at the Radisson Hotel was "Breaking Barriers Through the Exploration of Cultural Safety."
- The sixth annual Rich Man Poor Man dinner organized by medical students raised funds and hygiene donations for Agape Table and created awareness about food security, poverty and the need for affordable nutrition.
- The College of Rehabilitation Sciences launched Illuminate: Global Reflections on Rehabilitation Sciences, a speaker series focused on research and scholarly activity. Dr. Salvador Simó Algado, a teacher and researcher in occupational therapy in Spain, was the first speaker. He is the co-founder of Occupational Therapy Without Borders and spoke via Skype about integrating education, research and intervention.
- In February, a single mother and her two sons received the keys to a new home built for them through a partnership between the Rady Faculty of Health Sciences and Habitat for Humanity Manitoba. The inner-city bungalow is custom-designed for accessibility to meet the family's special needs. It is the third Habitat home that volunteers from the Faculty have helped to erect. More than 100 people volunteered during the nine-day build of the home's exterior last June.

RESEARCH MATTERS

- On January 16, Research Manitoba and Genome Canada announced \$4 million in funding for GENICE: a large-scale applied research project (LSARP). LSARP is one of Genome Canada's funding programs and is aimed at projects using genomic approaches to address challenges and opportunities of importance to Canada's natural resources, including interactions between natural resources and the environment, thereby contributing to Canada's bioeconomy and the well-being of Canadians. GENICE is a partnered project between the University of Manitoba researcher Gary Stern (Environment and Geography) and the University of Calgary professor Casey Hubert. The duo will combine their expertise in the areas of genomics, petroleomics and sea-ice physics to investigate the potential for native microbial communities to mitigate oil spills, as warmer temperatures and melting sea ice usher in increasing shipping throughout Arctic waters. This research will be undertaken at the Churchill Marine Observatory, a unique research facility the University of Manitoba is building in Churchill, MB with support from many partners, and on board the Canadian Coast Guard Ship Amundsen.
- The Natural Sciences and Engineering Research Council of Canada (NSERC) announced \$369,642 in funding on February 15 through a Strategic Partnerships Grant to Ying Chen (Biosystems Engineering). Her project will investigate conservation agriculture, specifically, new ways to till and seed soil. Chen will team up with two large Canadian manufacturers (Buhler Versatile Inc. and Atom-Jet Group) to develop VT and VS machines that will increase field efficiency by a factor of two with crop residue reaching levels of 100 per cent. This project will involve seven graduate students being trained by 11 team members, including faculty members and industrial researchers, engineers, and technical staff.
- On January 19, the University of Manitoba, University of Winnipeg and Red River College were all represented in the four finalist teams who competed in the Game Changer finale. The competition, targeting university students and post-doctoral fellows from all disciplines and at all post-secondary institutions in Manitoba, handed out the grand prize of \$10,000 to Team Loop for their solution to the problem of e-waste. Their idea: a weekend-long event where people could have any type of electronic waste picked up at their curb free of charge. The three member team included: Haneen Shouman and Michael Hall, students in the Asper School of Business MBA program, and Maria Sanchez who is studying marketing management through extended education at the University of Winnipeg.

Second place (\$4,000) and People's Choice (\$750) winners were Team Opes, with their presentation on how to improve financial literacy. Team Easy A(ctivity) was third place earning \$2,000 for an idea that would help university students improve their physical activity. Game Changer is an initiative of the Office of the Vice-President (Research and International) and was co-organized by the Stu Clark Centre for Entrepreneurship and the Technology Transfer Office. For more details on the competition, visit umanitoba.ca/gamechanger

- On January 25, the National Centre for Truth and Reconciliation (NCTR) welcomed the inaugural seven-member Survivors Circle, selected by the Governing Circle of the NCTR. The Survivors Circle members are made up of First Nations, Inuit and Métis Survivors of the Residential School System from across the country. The Survivors Circle members are: Terri Brown (Tahltan Nation, British Columbia), Shirley Flowers (Rigolet, Labrador), Piita Irniq (Lyon Inlet, Nunavut), Helene Johnson (Archerwill, Saskatchewan), Ted Quewezance (Keeseekoose First Nation, Saskatchewan), Barney Williams (Tla-o-qui-aht First Nations, British Columbia), and Doris Young (Opaskwayak Cree Nation, Manitoba). Other ceremonies took place as part of the welcoming of the Survivors Circle, including bringing the Bentwood Box of the TRC home to the NCTR. A pipe ceremony and traditional feast was held to welcome the Survivors Circle and the spirit name of the NCTR as part of the ceremonies.
- The eleventh annual Science, Engineering and Technology (SET) Day was held on campus on February 24, hosted and organized by the Office of the Vice-President (Research and International). More than 180 grade 11 and 12 high school students and their teachers participated in faculty-hosted hands-on activities: Aging and Technology (Centre on Aging), Pizza 101 (Agricultural and Food Sciences), Intro to Intelligent Robots (Science), Build-A-Bridge (Engineering) and Analyzing Your Moves (Kinesiology and Recreation Management). Let's Talk Science student volunteers provided hands-on DNA extraction activities. The participants listened to three SET Talks given by Dr. Derek Oliver (Electrical & Computer Engineering/Manitoba Institute for Materials), graduate student Kayla Moore (Civil Engineering/Graduate Studies), and Dr. Teresa de Kievit (Microbiology). Students and teachers were very engaged throughout the day both in the activities, talks and via social media.
- The International Centre provided the following services to its audiences in February:

Service	Audience	# of Participants
Advising	All international students, ELC students, Extended Education students, IEP students, and ICM students. This tally also includes 22 outbound exchange students.	687
Winter Welcome and Winter Orientation	International students and Exchange students admitted to Winter 2017 term	164
International Student Workshops conducted in conjunction with partners: SIN numbers, tenants' rights, banking, transit, career information	International Students admitted to Winter 2017 term	123
International Student Mentorship Program	International & Domestic Students	54
Volunteer Language Program Intake	International & Domestic Students	70
EU Funding Workshop	Faculty Members	40
MoU and Faculty Exchange Agreements	-University of Rwanda -Kogi State University, Nigeria	n/a
Memorandum of Understanding, Asper School of Business	Nova School of Business and Economics, Universidade Nova de Lisboa, Portugal	n/a
Student Exchange Agreements	-Nova School of Business and Economics, Universidade Nova de Lisboa, Portugal (Asper School of Business) - Amended - University of Caen Normandy, France (Agricultural and Food Sciences/University wide) - University of Caen Normandy, France (Engineering) -Kozminski University, Poland (Asper School of Business) - Amended -Akita International University	n/a
Delegation Visit(s)	Director General of the Taipei Economic and Cultural Office, and Director of the Taipei Economic and Cultural Office	6

- Sixty-two researchers were awarded funding from various external sponsors totaling \$4,838,571

PI	Sponsor	Title	Awarded
Banerji, Versha (Internal Medicine)	Research Manitoba	Resetting the clock: Modifying circadian rhythm in CLL	\$225,000
Barber, David (Centre for Earth Observation Science)	Research Manitoba	Sea ice - Understanding and modeling ocean-sea ice- atmosphere biogeochemical coupling in a changing climate	\$33,524
Becker, Allan (Pediatrics and Child Health)	Research Manitoba	Canadian Healthy Infant Longitudinal Development (CHILD) Study	\$59,321
Belmonte, Mark (Biological Sciences)	NSERC	Development of novel crop protection technologies	\$25,000
Bridges, Gregory (Electrical and Computer Engineering)	NSERC	Multi-physics modeling of jet engine airfoil clearance sensor	\$25,000
Cha, Young Jin (Civil Engineering)	NSERC	Unsupervised machine learning method for structural damage assessment	\$25,000
Chateau, Daniel (Community Health Sciences/Manitoba Centre for Health Policy)	Jewish General Hospital	Canadian network for observational drug effect studies (CNODES)	\$1,075,000
Chauhan, Bhupendrasinh (Pharmacy)	CIHR	Interventions and policies influencing primary healthcare professionals managing chronic diseases: An evidence synthesis	\$25,000
Chen, Guanqun (Biological Sciences)	NSERC	Molecular evolution of horseradish peroxidase	\$25,000
Chen, Ying (Biosystems Engineering)	NSERC	Vertical tillage and vertical seeding for conservation agriculture	\$369,642

Cowley, Kristine (Physiology & Pathophysiology)	Canadian Paraplegic Association (Manitoba) Inc.	Investigating the secondary health outcomes, health service use and costs in the cohort on Manitobans living with spinal cord injury	\$49,230
Davoren, Gail (Biological Sciences)	NSERC	The ecology of forage fish species and interactions with marine predators	\$75,820
Desai, Radhika (Political Studies)	Mitacs Inc.	Challenges and opportunities for the Manitoba media production sector in the digital multipolar global landscape	\$45,000
Eftekharpour, Eftekhar (Physiology & Pathophysiology)	Health Sciences Centre Foundation	A combinatorial approach for treatment of stroke: Inhibiting cell death and stimulating the stem cells repair capacity	\$70,000
El-Salakawy, Ehab (Civil Engineering)	Mitacs Inc.	Performance based seismic design guidelines for sprayed-FRP retrofitted circular reinforced concrete bridge columns	\$55,000
Ferguson, Steven (Centre for Earth Observation Science)	Research Manitoba	Innovative research on monitoring marine mammals to mitigate impacts of a changing Arctic (short title: Marine Mammal Monitoring)	\$31,176
Filizadeh, Shaahin (Electrical and Computer Engineering)	Manitoba Hydro	Alternative voltage source converter designs for HVDC systems	\$89,125
Ghavami, Saeid (Human Anatomy and Cell Science)	Mitacs Inc.	Mevalonate cascade inhibition sensitizes human glioblastoma cells to Temozolomide via modulation of autophagy	\$45,000

Gole, Aniruddha (Electrical and Computer Engineering)	Mitacs Inc.	Wide area measurement based robust damping controllers for power systems with embedded powered electronic devices	\$59,000
Gorczyca, Beata (Civil Engineering)	NSERC	The relationship between membrane and foulant in filtration of high DOC and hardness waters	\$25,200
Gordon, Joseph (Nursing)	Research Manitoba	Therapeutic targeting of skeletal muscle Nix in early- onset insulin resistance	\$52,000
Herbert, David (Chemistry)	NSERC	Development of a standardized analytical protocol for determination of chlorite concentration using thiourea	\$25,000
Hollaender, Hartmut (Civil Engineering)	NSERC	Evaluation of the water balance for evapotranspiration landfill covers	\$25,000
House, James (Human Nutritional Sciences)	NSERC	Exploring research gaps for determining protein quality in food	\$25,000
Jian, Fuji (Biosystems Engineering)	NSERC	Safe storage guidelines for hemp seeds	\$25,000
Khafipour, Ehsan (Animal Science)	NSERC	Enhancing gut health in dairy cows and economic and environmental sustainability of Manitoba dairy producers	\$243,000
Ko, Ji Hyun (Human Anatomy and Cell Science)	Health Sciences Centre Foundation	Normal brain imaging database for neurodegenerative disorder studies	\$70,000
Kordi, Behzad (Electrical and Computer Engineering)	NSERC	An investigation of space charge profile on flashover characteristics of fiberglass reinforced plastic (FRP) tools under DC conditions	\$33,011

Kuzyk, Zou Zou (Centre for Earth Observation Science)	Research Manitoba	Freshwater-marine coupling in Hudson Bay: A study of winter estuarine processes in the coastal corridor and effects of environmental change	\$41,914
Porter, Michelle (Centre on Aging)	Riverview Health Centre	An exploratory study on renovations of a special needs dementia unit: Impact on residents, staff and family	\$169,261
Rodd, Celia (Pediatrics and Child Health)	Children's Hospital Foundation of Manitoba Inc.	Evaluating area-based socioeconomic status predictors of pediatric health outcomes in Manitoba	\$40,000
Shao, Ruodan (Business Administration)	SSHRC	How business ethics pay off: The role of corporate social responsibility in employee ability, motivation, opportunity, and performance	\$64,780
Singh, Harminder (Internal Medicine)	Children's Hospital of Eastern Ontario (CHEO)	The Canadian Gastro-Intestinal Epidemiology Consortium (CanGIEC): Inflammatory bowel disease in Canada	\$144,000
Stecina, Katinka (Physiology & Pathophysiology)	Canadian Paraplegic Association (Manitoba) Inc.	Novel mechanisms involved in autonomic dysreflexia after spinal cord injury	\$50,000
Stern, Gary (Centre for Earth Observation Science)	Research Manitoba	Understanding the effects of climate change and industrial development on contaminant processes and exposure in the Canadian Arctic marine ecosystem: How can we prepare?	\$40,536
Thiyam-Hollander, Usha (Human Nutritional Sciences)	NSERC	Development of a process for a novel ALA omega-3-rich flaxseed oil dairy protein powder	\$25,000

Tomy, Gregg (Chemistry)	NSERC	Efficacy of a polymeric medium to absorb hydrocarbons from wastewaters in a storm water drainage system	\$25,000
Wang, Yang (Computer Science)	Mitacs Inc.	Computer vision and deep learning for moderating visual content	\$799,999
Wang, Yang (Computer Science)	NSERC	Object detection from security cameras for smart homes	\$25,000
Young, James (Computer Science)	NSERC	Specialized location interface technologies for industrial robotic inspection	\$121,738
Young, James (Computer Science)	Inuktun Services Ltd	Specialized localization interface technologies for industrial robotic inspection	\$70,000
Yuan, Qiuyan (Civil Engineering)	NSERC	Evaluation and optimization of the effectiveness of Bactidomus™ technology in reducing phosphorous in municipal wastewater lagoon effluents	\$25,000
Zahradka, Peter (Physiology & Pathophysiology)	Research Manitoba	Effects of adiponectin processing on adipose tissue function and metabolic disease risk	\$32,500

ADMINISTRATIVE MATTERS

- On February 14th, after a successful pilot period, the first full cohort completed the Leadership Learning Program. The leadership program will graduate two cohorts annually.
- The University and the University of Manitoba Faculty Association have established two joint committees; one examining gender based pay differentials, and the other looking at the appropriate use of research metrics. Both committees will complete their work and report by the end of the year.
- Early collective bargaining discussions have begun with UMFA and UNIFOR. Both contracts expire at the end of March 2017.
- In January 2017, the Active Living Center achieved Leadership in Energy and Environmental Design (LEED®) Silver designation from the Canadian Green Building Council (CaGBC).

- The Office of Sustainability hosted four open houses in January and February 2017 on the University's Draft Sustainable Transportation Strategy with approximately 1,000 students, faculty and staff stopping by.
- The Campus Planning Office received funding from the Indigenous Initiatives Fund for Indigenous artwork and design for the Campus Bike Kiosk and active transportation wayfinding. The Bike Kiosk design has progressed under the guidance of the University's Indigenous Planning and Design Principles. The Fund will enable the Indigenous design of this project to continue through artistic and language elements, contributing to the Indigenization of the campus environment through unique cultural placemaking.
- The Copyright Office, in conjunction with CATL, has written and is developing eight modules to create a Copyright Tutorial aimed at University of Manitoba faculty and instructors. The modules cover key concepts such as Fair Dealing, using Internet content, audio-visual material, library resources, other copyright-friendly resources and managing one's own copyright. Each module is located in UM Learn and includes a script in PDF format as well as a short 3-5 minute animated video. Publicity and roll-out of the tutorial will begin in summer 2017.
- On January 16, 2017 the Office of Human Rights & Conflict Management arranged and hosted an exploratory meeting regarding Bill 15 – the Sexual Violence Awareness and Prevention Act with Post-Secondary Institutions ("PSI"): University of Winnipeg, Canadian Mennonite University, Assiniboine Community College, Brandon University and Manitoba Institute of Trades and Technology. It was unanimously agreed by all in attendance that as the legislation is specific to Manitoba PSIs, a network to share resources and information would be created. This network will be modelled after the Accessibility for Manitobans Act PSI Network.
- Electronic T4s for 2016 were made available to staff more than a week in advance of the February 28th deadline. This year, 12,583 T4 slips were generated. Staff continue to be encouraged to opt into electronic T4s to save the cost and environmental impact of printing and mailing paper slips.

EXTERNAL MATTERS

- For the period of April 1, 2016 to February 17, 2017, the University has raised \$40,467,179 towards the 2016/2017 fiscal year.
- As of February 17, 2017 we have raised \$275,998,001 in philanthropic gifts and received a \$150 million commitment from the provincial government towards our \$500 million goal for the Front and Centre campaign.

- Significant gifts in the last reporting period include:
 - Dr. Donald K. Johnson, O.C., [BsC(EE)/1957, LLD/2008] made a gift of \$500,000 in support of the Stanley Pauley Engineering Building.
 - The Manitoba Métis Federation has made a contribution of \$200,000 to support the Louis Riel Bursaries fund at the University of Manitoba. This endowed fund provides bursaries to attract and retain Métis students in degree programs.
 - Dr. Sonja I. Bata, O.C.[LLD/1999] established the Sonja I. Bata Material Culture Scholarships with a gift of \$150,000.

- On January 16, President Barnard and Digvir Jayas, Vice-President (Research and International) met with the Honourable Kirsty Duncan, Minister of Science, and Terry Duguid, Member of Parliament, Winnipeg South. Discussions included an overview of the University of Manitoba's research priorities, Indigenous achievement initiatives, the National Centre for Truth and Reconciliation, and university-industry partnerships. Minister Duncan's visit included a tour of the Manitoba Institute for Materials and of the National Centre for Truth and Reconciliation.

- On January 25, President Barnard met with the Honourable Ian Wishart, Minister of Education and Training, to discuss areas of strategic importance to the University including the Indigenous Student Centre and the Centre for the Advancement of Teaching and Learning.

- On January 30, John Kearsy, Vice-President (External) met with Bram Strain, Deputy Minister, Education and Training. The purpose of this meeting was to discuss the Province of Manitoba's \$150 million commitment to the Front and Centre campaign including support for the National Centre for Truth and Reconciliation and Indigenous Teaching Chairs.

- On February 3, President Barnard met with Judy Klassen, Interim Leader, Manitoba Liberal Party and MLA, Kewatinook in order to share information on the University of Manitoba's work in the areas of Indigenous achievement and reconciliation.

- On February 7, the University of Manitoba hosted an event for alumni and friends living in Ottawa. President David Barnard highlighted the upcoming UM 140 celebrations. Fourth-year Political Studies student Allison Kilgour spoke at the reception following her experience representing the University at University Canada's Converge conference, sharing how her experience at the University of Manitoba has shaped who she is. Senator Patricia Bovey, past chair of the Board of Governors, also joined the night's speakers to share her thoughts on how the University of Manitoba has shaped the identity of Manitoba and our country. More than 85 alumni and friends attended the event including Jim Carr, Minister of Natural Resources, Ted Falk, MP, Provencher, Terry Duguid, MP, Winnipeg South, Don Rusnak, MP, Thunder Bay-Rainy River, and Senator Murray Sinclair.

- On February 7-8, President Barnard traveled to Ottawa in order to host the Ottawa alumni reception and hold a series of meetings. Meetings were scheduled with Michael Wernick, Clerk of the Privy Council and Secretary to Cabinet; The Honourable Marilou McPhedran, Senator; Andrea Lyon, Deputy Minister, Agriculture and Agri-Food Canada, and Deputy Minister University Champion for the University of Manitoba; The Honourable Patricia Bovey, Senator, and Greg Fergus, MP, Hull-Aylmer. Discussion items included Indigenous achievement, the National Centre for Truth and Reconciliation, and research priorities.
- On February 9, President Barnard met with members of the Committee of University Presidents of Manitoba and the Honourable Ian Wishart, Minister of Education to discuss Budget 2017 and the post-secondary sector.
- On February 27, President Barnard met with the Honourable Cameron Friesen, Minister of Finance, in advance of Budget 2017 to discuss fiscal challenges facing the University of Manitoba and the post-secondary sector.
- On March 2 and 4, the University of Manitoba hosted Visionary Conversations Across the Nation events in Vancouver and Victoria titled Acknowledging the Past, Creating our Future – a discussion focused on the importance of human rights in today’s climate. President David Barnard hosted the conversations featuring Ry Moran, Director, National Centre for Truth and Reconciliation and Katherine Starzyk, Assistant Professor, Department of Psychology for alumni and friends in both cities.
- A Visionary Conversations event was held on March 9 in the Brodie Atrium at the Bannatyne Campus. The event was titled “Why do we allow poverty to persist in Canada? – What role should corporations, individuals, governments and non-profit organizations play in reducing poverty?” and was moderated by President David Barnard. Panelists included Donald Benham, Hunger and Poverty Awareness Manager, Winnipeg Harvest; Evelyn Forget, Professor, Community Health Sciences; Edward Kennedy, President and CEO, North West Company; Susan Prentice, Professor, Department of Sociology; and Diane Redsky, Executive Director, Ma Mawi Wi Chi Itata Centre.