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MESSAGE FROM THE PRESIDENT

2015

The Institute continues to follow up on the successful workshop entitled "Creating the Memories and Celebrating the Legacy of the Bold and the Brave: Building the Archives of Women Scientists and Engineers in Canada". The project team was Ruby Heap, Claire Deschênes, Catherine Mavriplis and Monique Frize. A Task Group was formed after the workshop to discuss the priorities established and to create sub-groups around the main action items. The Task Group is co-chaired by Ruby Heap and Monique Frize. The main topics for the sub-groups were: Collecting an inventory of archives of women in science and engineering; developing a manual on what to preserve and how to organize an archive; raising funds to support the action plan and activities as defined by the workshop in September 2014.

Monique Frize, Ruby Heap, and Claire Deschênes applied for a grant from the Heritage Canada Fund 150, a fund put in place to celebrate Canada's 150th anniversary on July 1, 2017. Our Institute was informed of the results of the application one full year after its submission. The application was not funded. However, we could apply to Ontario before the deadline of October 21, 2016, for a grant not to surpass the sum of \$50,000. The three of us applied with a modified proposal. The main differences were: we would profile 50 Canadian women instead of 150, between 1860 and 2010, of which 10 women would be Aboriginal women in science or engineering. We hope that this new proposal will be successful, and if it is, we plan to deliver the product by July 1, 2017. The plan is to profile the women on our website and develop a page especially for Aboriginal women. We also plan to release the knowledge garnered with the help of various social media approaches.

In 2015, a goal was for the Institute's Board of Directors to be expanded to other regions, especially in Africa and South East Asia. This has been done with the addition of two new Board members: Uduakobong OKON (Nigeria) and Dillip Pattanaik (India). The Board was also very pleased to add Margaret (Peggy) Layne from the USA during the summer of 2015. The new Board Members will help the Board greatly with their expertise and enthusiasm!

Our future plans are to expand the Archives Project to several regions in Canada and abroad. Our Board Members mention the project as often as they can as part of our invited talks. The message is directed at women in the fields of science and engineering, encouraging them to keep their papers and plan to organise them at some point. As President of the Institute, I am very fortunate to have competent, active, and enthusiastic Board Members. Together, we look forward to the development of education and research activities in Africa and Asia and continue to develop the archives project.

Kind regards! Hope you all enjoy reading this report!

Monique Frize, P. Eng., O.C., FIEEE

President, ERI

STRUCTURE OF THE ORGANISATION

Who We Are

The INWES Education and Research Institute (ERI) is a charitable organisation incorporated in Canada in November 2007 (Corporation number 445576-2) and registered as a Canadian Charitable organisation in February 2008 (BN 82690 2751 RR0001). The INWES Education and Research Institute was formed by the International Network of Women Engineers and Scientists (INWES) in order to: "Advance education in the fields of science, technology, engineering and mathematics (STEM) worldwide through an international network of organisations, foundations and experts." The ERI is governed by a Board of Directors and its processes are guided by the laws in Canada for charitable organisations. Registration as a Non-profit 501(c)3 organisation in the United States was granted in March 2010 [EIN 98-0623980] based on the reciprocity agreement between the USA and Canada regarding this tax exempt status. For more information visit the websites at: www. inwes-eri.org and www.inwes.org.

The Institute is governed by a Board of Directors. Its activities are planned and executed through five committees: programs, research, education communications, and fund development. Institute functions are administered by three committees: executive, finance and nominations.

Our Programs and Past Activities

To achieve our objectives, the ERI has identified the following programs and potential projects/activities.

(1) Award scholarships, bursaries and grants to those wishing to advance their studies in one or more of these fields of study, with priority being given to underrepresented individuals in these fields.

ERI intends to advance education in STEM by carrying out a scholarship program with priority being given to young women and underrepresented minorities. Scholarships will be provided to the winners of an essay contest conducted annually for individuals aspiring to study in a STEM field at university.

The Institute will establish scholarship committees in each region in which INWES carries out its programs and for which financing can be obtained. This will be to publicize, conduct outreach to potential

Our Objectives

The primary objectives of the Institute are to advance education in the fields of science, technology, engineering and mathematics through the following programs:

- awarding scholarships, bursaries and grants for students wishing to study in one of these fields of study;
- 2. carrying out research in both developed and developing countries concerning the fields of science, technology, engineering and mathematics, as both an educational and career choice and to make the results of that research available to the interested public;
- acting as a resource centre and database for information concerning education in these fields and collecting best practices in encouraging students to stay in school through college and university; and
- 4. developing and maintaining a website to raise public awareness concerning these fields of study and to make the results of research available to the interested public.

candidates, receive reviews and recommend winners; the Committee will also help organise the distribution/ presentations of the scholarships and assignments of mentors. The Committee would ideally consist of a few INWES members (those leading the project) in the region concerned, one ERI board member, and one or a few persons from the sponsor. This make-up is flexible and will depend on the particular needs of the sponsor and project leader(s).

Student applicants will be asked to (a) list the courses they have already taken in math, science, engineering or technology, other experiences that developed their interests in these fields; (b) submit an essay as to why they want to follow a course of study toward a career in STEM; and (c) provide a short biography of a woman or minority scientist or engineer from their region. More specific guidelines are available to the grantees when a project has been

selected for funding. The Scholarship Committee oversees the final selection of winners.

A Scholarship Program Coordinator, under the direction of the ERI Executive Committee, will develop and provide materials to the regional Scholarship Committees. She will keep the ERI Board of Directors aware of program activities, facilitate the distribution of scholarship awards, and produce a final report to the ERI along with expenditures and funding provided by ERI. One of such projects has been completed. It was:

■ A Successful Test Case in Nigeria

A scholarship project was organized by the Association for Promoting African Girls in Engineering, Science and Technology (APAGESTE) and contracted to Dr. Okon Uduakobong Aniebiat, APAGESTE President. Application materials reached an estimated 2,000 females in three senatorial districts of Akwa Ibon State of Nigeria. There were six winners in the secondary school essay competition, three prizes in the university category and gifts for all participants in attendance at the final ceremony. ERI Directors view this as a well-organized and excellent use of resources provided.

(2) Conduct research in both developed and developing countries concerning the fields of science, technology, engineering and mathematics as both an educational and career choice and to make the results of that research available to the interested public.

The Institute will carry out research concerning STEM as both an educational and career choice. It will perform these research activities using its own staff and volunteers. One of two research projects has been completed. It was:

■ Gender Resource Tool

A resource tool was developed to provide sourcecontaining data on 21 indicators describing gender disparities and the condition of the population (i.e. education, economic conditions and participation in the workforce). Initial focus was on the African and Asian continents.

This tool was composed of three elements: finding relevant and credible data; data processing and representation; and developing a user-friendly interface. It is intended for use by researchers, educators, government agencies, NGOs and other organizations interested in human resources in STEM.

Many organizations, entities and individuals have expressed the desire of having access to such a tool. The ongoing program is:

■ Best Practices Tool

The Institute intends to develop a best practices tool which will provide a collection of evaluated proven best practices concerning the following: retention of children in schools through college; successful outreach strategies and activities for educating young women and underrepresented minorities about careers in STEM fields; and tools for raising the awareness of parents, educators, employers and the public of the importance for women to pursue and succeed in STEM careers. All of this data will be collected, researched, evaluated and made available through INWES's resource centre.

The main objective of the project will be to provide, in one location, a collection of evaluated and proven best practices for ready access by various organisations interested in conducting programs to encourage the education, participation and retention of girls and underrepresented minorities in STEM. A best practices project team will be assembled with research staff to:

- Collect best practices;
- Evaluate and analyze best practices for validity and adaptability for use in multiple countries, and economic situations;
- Build a database collection of best practices and develop friendly interfaces integrated into the ERI website with a link to the INWES web portal so they become available to potential users around the world.
- (3) Act as a resource centre and database for information concerning education in these fields and best practices in encouraging students to stay in school through college and university.

The Institute intends to build knowledge by providing information about the fields of science, technology, engineering and mathematics as career choices to the interested public, and in particular to teachers, students, and other charities and governmental organisations. ERI will function as a centre of information which will be available for those seeking to further enhance their knowledge concerning STEM as a career choice. All research and tools developed by ERI will be made available through its resource centre which will be open to

any interested members of the public. As a result of educating the public, the Institute hopes to encourage the increased participation in the fields of STEM.

(4) Develop and maintain a website to raise public awareness concerning these fields of study and make the results of its research available to the public.

The Institute will develop an extensive and leadingedge website that will function as a virtual resource centre of information including multimedia; communications; online library resources and research reports available for teachers, students, and the public. The website will serve as a portal to gain access to:

- information and research gathered and prepared by INWES;
- related research reports and information available through other organisations;
- opportunities in the STEM field for scholarships, internships, and international studies;
- information regarding international workshops, conferences, and seminars; and
- information about upcoming workshops and seminars on leadership training, diversity awareness, and education for teachers in STEM.

It is anticipated that the interested public will make donations to the Institute to assist it in achieving its obiectives.

INWES-ERI Sponsorship Program

BRONZE LEVEL (\$500 to \$1,000)

Sponsor name is mentioned on the ERI website, in the program brochure for events, and in the Annual Report.

SILVER LEVEL (\$1,001 to \$2,500)

Sponsor name and logo will be on the ERI website, in the program brochure where relevant, and a quarter-page ad in the Annual Report.

GOLD LEVEL (\$2,501 to \$5,000)

Same benefits as Silver, except a half-page ad in the Annual Report. Workshop participation fee is waived for one person.

PLATINUM LEVEL (\$5,001 to \$10,000)

Same benefits as Gold, except a full-page ad in the Annual Report. Workshop fee is waived for two persons. Sponsor will be mentioned in press releases, media information kits, and other publications.

All dollar amounts are in CAD \$.

www.inwes-eri.org

COMMITTEE REPORTS

Executive Committee / Anna Szemik-Hojniak, Secretary General

The Institute Board of Directors and Committee Chairs function primarily through virtual meetings via the internet. The Board meets in person once a year at the Annual Meeting to handle organisational and structural changes, review program plans, and review the financial report and approve the budget for the subsequent year.

Meetings held in 2015:

3rd March 2015 – Board Meeting - GoToMeeting; 6th July 2015 - Annual General Meeting - Ottawa, Ontario, Canada; 3rd October 2015 – Board Meeting - GoToMeeting.

Minutes of all of these meetings are available upon written request.

Research Committee / Ruby Heap, Committee Chair

Creating the Memories and Celebrating the Legacy of the Bold and the Brave: Building the Archives of Women Scientists and Engineers in Canada

WORKSHOP September 11 and 12, 2014 and follow up 2015 University of Ottawa, Faculty of Social Sciences

Creating the Memories and Celebrating the Legacy of the Bold and the Brave: Building the Archives of Women Scientists and Engineers in Canada, was a two day workshop held on September 11-12, 2014 at the University of Ottawa, under the auspices of INWES-ERI (Claire Deschênes, Monique Frize and Ruby Heap) and the NSERC/Pratt & Whitney Chair for women in science and engineering, Ontario (Professor Catherine Mavriplis, Faculty of Engineering, University of Ottawa).

The history of women scientists and engineers in Canada is still in its infancy. This can be largely attributed to their invisibility in traditional and established archives, which collected male records and tended to privilege the life and work of men; but another major obstacle has been these professional women's inclination to underestimate their own accomplishments, with the result that most did not seek to preserve their papers, and neither did their family, friends and colleagues. There is a pressing need to provide current and future Canadian women scientists and engineers with an accurate and inspiring understanding of their past, and to learn about the lives and accomplishments of those "who came before them".

To this end, the workshop brought together historians, archivists, science journalists and policy makers with women scientists and engineers to reflect and exchange on the collection, preservation, development and sharing of the latter's records and those of other women in Canadian science and engineering. With the generous support of several sponsors, including the NSERC Chairs for Women in Science and Engineering, the Social Sciences and Humanities and Research Council of Canada (SSHRC), IBM Canada, the Canadian Commission for UNESCO, the British High Commission in Canada and the University of Ottawa, the workshop brought together 45 participants from Ottawa, other parts of Canada, the U.S. and the U.K. They shared their knowledge through panel discussions, presentations and working groups. The participants agreed that we need to encourage women in science and engineering to recover and preserve their own archives for current and future generations. Writing the history of women scientists and engineers in Canada is imperative for various reasons: it will help pay full tribute to their accomplishments and their contribution to women's history, to the history of science and engineering and to Canadian history; a knowledge of their past will also provide critical historical insights into the current status and role of women scientists and engineers, and help establish important connections with gendered practices in the past and present day challenges and policy issues; last but not least, it will develop a sense of pride in the achievements of women scientists and engineers, and provide girls and women with inspiring role models that could lead them to pursue careers in science and engineering.



The participants had the opportunity to discuss and report on key themes linked to four working groups: personal record preservation and digital management; creating unwritten records (oral histories); building a support network; and sharing information and strategies. Their report led to the adoption of a comprehensive action plan that could lead to the first steps in the greater initiative of building an Archive of women scientists and engineers in Canada. In 2015, a Task Force led by Ruby Heap and Monique Frize was established to identify these first steps. A consensus emerged on the following goals: 1. better define the scope of the project; develop a business plan and identify stakeholders; 2. create a resource guide to the collection and preservation of personal archives; 3. build an inventory of existing personal, institutional and organizational archives; 4. encourage networking between Women and STEM associations; 5. establish best practices. the past year, the Task Force devoted time to the goals one and two while presenting the project at different venues. In the next few years, the Task Force will focus more on goals two and three, and will seek, to this end, the support of its partners and identified stakeholders.

The following activities are a direct follow-up to the 2014 workshop.

Ruby Heap, professor at the University of Ottawa and a member of the INWES-ERI Board of Directors. encouraged Dr. Ursula Franklin (1921-2016), the University of Toronto's first female professor of metallurgy and materials and a well known and highly respected scholar, pacifist, feminist and educator, to donate her remaining records to the **University of Toronto Archives and Records Management Services. As a** result, the Ursula Martius Franklin Fonds is now open to researchers.

Monique Frize encouraged a retired woman civil engineer, who was the first woman to be hired at the Ministry of Transportation of Ontario, to organize her archives and to donate them to the special collection at the University of Ottawa.

During her Studies and Research Year (sabbatical), that will run from May 1 to December 31 2017, INWES-ERI treasurer Claire Deschênes, the first woman professor of engineering at Laval University, intends to organise and format her own personal records for addition to the Archive.

Nominations Committee / Claire Deschênes, Committee Chair, Director

Dr. Uduakobong A. OKON (Nigeria) and Dillip PATTANAIK (India) were confirmed as directors at the Board meeting #16 held using GoToMeeting on March 17, 2015.

During the Board meeting on July 6, 2015 (BM # 18) Secretary General, Gail Mattson (USA) resigned from

the position of INWES-ERI Secretary General and Anna Szemik-Hojniak (Poland) was elected as new Secretary General. Margaret "Peggy" Layne (USA) was nominated and elected as the new INWES-ERI Director.

Mariane Rodot (France) resigned from the position of INWES-ERI Director on July 2015.

Treasurer's Report - January 1 - December 31, 2015* / Claire Deschênes, Treasurer

The Financial Statements 2015 (file: INWES-ERI_financial Statement_2015_final.pdf) and the Tax Return to government 2015 (1144115_T15_signed_INWES-ERI-FINAL.pdf) were prepared by Michelle E. Huibers, CA, of Kelly Huibers McNeely Chartered Accountants as usual. No concern was raised.

The year 2015 started with a net asset of \$14,907.

From January 1, 2015 to December 31, 2015, INWES-ERI received no revenues and spent \$2,153, for Conference and travel (\$309), Office expenses (\$40), and Professional fees (\$1,804).

On January 28th, a cheque of \$200 was sent to the Receiver General for Canada, for processing the Request for Certificate of Amendment. In March 2015, following up the Archive Workshop, held in September 2014, a reimbursement of \$1,245 was sent to Gail

Mattson, for travel expenses. In May 2015, Joan Graf received a reimbursement of \$308.95, for the printing of the INWES-ERI banners for ICWES16, held in October 2014. In July 2015, a payment of \$904 was sent to Kelly Huibers McNeely, for preparation of the Financial statements 2014. A budget proposal was approved at AGM#8. In October 2015, a reimbursement of \$20 was sent to Claire Deschênes for the submission of the Annual report 2014 and a reimbursement of \$20 was sent to Pascale Dubé for the submission of the Annual Report 2015. In November 2015, in the follow-up of the Archives Workshop, a payment of \$900 was sent to Daphne Ong, for creating the INWES-ERI website "Creating the Memories and Celebrating the Legacy of the Bold and the Brave".

On December 31, 2015, INWES-ERI Net Assets were \$12,754.

* All amounts in CAD \$

INWES

Education and Research Institute
wishes to thank the University of Ottawa,
Faculty of Science
for supporting our mission and programs.





FINANCIAL REVIEW 2015



REVIEW ENGAGEMENT REPORT

To the Directors of INWES Education and Research Institute

We have reviewed the balance sheet of INWES Education and Research Institute as at December 31, 2015 and the statements of revenue and expenditures and net assets and cash flows for the year then ended. Our review was made in accordance with Canadian generally accepted standards for review engagements and accordingly consisted primarily of inquiry, analytical procedures and discussions related to information supplied to us by the Organization.

A review does not constitute an audit and consequently we do not express an audit opinion on these financial statements.

Based on our review, nothing has come to our attention that causes us to believe that these financial statements are not, in all material respects, in accordance with Canadian accounting standards for not-for-profit-organizations.

Authorized to practise public accounting by
The Institute of Chartered Professional Accountants of Ontario

Kelly Huiters McNerly Professional Corporation

Stittsville, Ontario June 16, 2016

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INWES EDUCATION AND RESEARCH INSTITUTE

BALANCE SHEET (Prepared without Audit)

As at December 31, 2015

	2015		
ASSETS			
CURRENT ASSETS Cash	\$ 13,504	\$	16,902
	\$ 13,504	\$	16,902
LIABILITIES			
CURRENT LIABILITIES Accounts payable and accrued liabilities	\$ 750	\$	1,995
NET ASSETS	12,754		14,907
	\$ 13,504	\$	16,902

STATEMENT OF REVENUE AND EXPENDITURES AND NET ASSETS (Prepared without Audit)

For the year ended December 31, 2015

		2015	2014		
REVENUE Donations	\$	<u>-</u>	\$	17,500	
EXPENDITURES Conference and travel Office expense Professional fees	_	309 40 1,804		3,551 210 881	
		2,153		4,642	
NET REVENUE (EXPENDITURES)		(2,153)		12,858	
NET ASSETS - BEGINNING OF YEAR		14,907		2,049	
NET ASSETS - END OF YEAR	\$	12,754	\$	14,907	

The accompanying notes are an integral part of these financial statements.

INWES EDUCATION AND RESEARCH INSTITUTE

STATEMENT OF CASH FLOWS (Prepared without Audit)

For the year ended December 31, 2015

		2015	2014
CASH PROVIDED BY (USED IN)			
OPERATING ACTIVITIES Net revenue (expenditures) Net change in non-cash working capital item:	\$	(2,153) \$	12,858
Accounts payable and accrued liabilities NET CHANGE IN CASH	_	(1,245) (3,398)	1,245 14,103
CASH - BEGINNING OF YEAR		16,902	2,799
CASH - END OF YEAR	\$	13,504 \$	16,902

NOTES TO THE FINANCIAL STATEMENTS (Prepared without Audit)

December 31, 2015

1. NATURE OF ORGANIZATION

The INWES Education and Research Institute was incorporated without share capital on November 29, 2007 under the provisions of Part II of the Canada Corporations Act. Effective December 29, 2008 the Organization was granted charitable status under Sec 149(1)(f) and is exempt from income taxes. The Organization operates as an international education and research institute specifically focused on advancing education in the science, technology, engineering, and mathematics fields.

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES 2.

Basis of Presentation

These financial statements have been prepared in accordance with Canadian accounting standards for not-for-profit organizations. The principal accounting policies of the Organization are summarized as follows:

The accompanying notes are an integral part of these financial statements.

Revenue Recognition

Fundraising, grants and sponsorships are recognized as revenue when received or receivable if the amount to be received can be reasonably estimated and collection is reasonably assured.

Contributed Services

Volunteers contribute many hours per year to assist the Organization in carrying out its These contributed services have not been recognized in the financial statements

Foreign Currency Translation

Monetary assets and liabilities in foreign currency are translated at the exchange rate in effect at the balance sheet date, whereas, other assets and liabilities are translated at the exchange rate in effect at the transaction date. Revenue and expenditures in foreign currency are translated at the average rate in effect during the year. Gains and losses are included in the earnings for the year.

Accounting Estimates

The preparation of financial statements in conformity with Canadian generally accepted accounting principles requires Management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the dates of the financial statements and the reported amounts of revenues and expenditures during the reporting period. Actual results could differ from these estimates.

3. FINANCIAL INSTRUMENTS

Fair Value

The carrying values of cash and accounts payable and accrued liabilities approximate their fair value due to their short-term maturities.





CONTACT INFORMATION:

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