

## RESUME SUMMARY – June' 2004

### Ferial El-Hawary

#### Position:

President,  
BH Engineering System Ltd.  
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#### ACADEMIC QUALIFICATIONS:

Ph.D Electrical Engineering (Oceans Engineering),  
Memorial University of Newfoundland, St. John's, NF. Canada 1981

M. Sc. Electrical Engineering, University of Alberta, Edmonton., Canada 1971

B. Eng. Electrical Engineering, University of Alexandria Egypt. 1967

Registered Engineer: Association of Professional Engineers of Nova Scotia (APENS).

#### SUMMARY OF ACCOMPLISHMENTS:

- ◆ Over 20 years experience teaching subjects related to the electrical and oceanic engineering field.
- ◆ Research publications record in (Oceans Engineering) author and co-author of:
  - 50 Conference Proceeding Papers
  - 23 IEEE/Journal Papers
  - 7 Invited Chapters in Books
  - 10 Internationally Invited Lectures(List of the Significant Publications with the Invited Lectures is attached)
- ◆ Editor-In-Chief The OCEAN Engineering Handbook CRC Press, Year'2001.
- ◆ Associate Editor for IEEE/Oceanic Engineering Journal.
- ◆ Secured NSERC research funding during academic career, 1983-1993. This funding was not only in form of Individual Operating Grants but also in Infrastructure to establish the Modeling & Signal Analysis for Marine Applications Laboratory, as well as Strategic and Equipment Grants.
- ◆ Obtained research funding from Oil Companies.

- ◆ Devised techniques for compensation for dynamic source Heave in Underwater Exploration.
- ◆ Founder of the Modeling and Signal Analysis Research Laboratory at the Faculty of Engineering of the Technical University of Nova Scotia (Now is Dalhousie University).
- ◆ Founder and President of BH Engineering Systems Ltd. -Developed and promoted both advanced and upgrading Professional Development Courses for both the Electrical Engineering and Ocean Industry communities. More than 20 courses have been designed and attended by over 300 professional engineers from close to 100 companies thoseelhawary@dal.ca, f.el-hawary@ieee.org, making a major contribution to technology transfer from the academic sphere to industry.
- ◆ Strong Contact with The Marine Industry Internationally:
  - 1- Tomson Marconi Sonar Limited (France).
  - 2- Tomson Marconi Sonar Limited U.K.
  - 3- Draper Laboratory, Cambridge, MA, USA
  - 4- Naval Undersea Warfare Center, Newport, RI, USA
  - 5- Raytheon, Electronic Systems, MA, USA.
  - 6- Harbor Branch Oceanographic Institution, Fort Pierce, FL
  - 7- Woods Hole Oceanographic Institute, MA, USA
  - 8- Scripps Institute of Oceanography, San-Diego, CA, USA
  - 9- Lockheed Martin - Ocean, Radar & Sensor Systems, Sunnyvale, CA, USA.
  - 10- Unocal Science and Technology Division, Brea, California, USA.**

This is in addition to the Canadian Defense Research Establishment Atlantic (DREA), the Canadian Defense Research Establishment Ontario, Bedford Institute of Oceanography (BIO) and Sable Off-Shore of Nova Scotia.

- ◆ Professional Societies Activities Including IEEE:
  - 1- Currently she is the Chapters Coordinator Chair of IEEE Canada (Region-7).
  - 2- Chair of the Organizing Committee IEEE/System Man & Sybernatic Conference scheduled to be held in Montreal, Quebec, October'2007.
  - 3- General Co-Chair of IEEE/MTS OCEANS'2008 Conference Scheduled to be held in Quebec City, October'2008 .
  - 4- Member of the Organizing Committee for IEEE/Section Congress'2008 Scheduled to be held in Quebec City, October'2008 .
  - 5- Region-7 Liaison for IEEE/Section Congress'2005, Tampa, Florida.
  - 6- IEEE/Eastern Canada Council Past Chair.
  - 7- IEEE/Canadian Atlantic Chapter Chair of the Oceanic Engineering Society.
  - 8- Served national IEEE/Canada as managing the CCECE'2000 Annual Conference in Halifax, N.S..
  - 9- Managed IEEE/Power and Industrial Engineering Society Annual Conference that has been held in Halifax since 1998 on an annual basis.
  - 10- Currently she is the Section Chair of the Marine Technology Society (MTS) Canadian Maritime Section.

- 11- Served the IEEE at international levels, as being the Institute of Electrical and Electronics Engineers (IEEE), Vice President International of the IEEE/ Oceanic Engineering Society and Membership Development Committee Past Chair.
- 12- She is the first woman (and Canadian) to be nominated to serve as President of the Oceanic Engineering Society.
- 13- She is recognized for the leadership roles in establishing a strong IEEE/OES European Chapter based in France and the Norway Chapter based in Trondheim.
- 14- She is also a member of the IEEE/Board Transnational Multilingual Committee.
- 15- Member of the IEEE / History Committee.
- 16- Member of the IEEE/Ethics and Member Conduct Committee.
- 17- Ferial served at the local (APENS) and national (CCPE) levels of the Association of Professional Engineers by chairing many of the working group committees, since 1985.

- ◆ Dr. El-Hawary has over 20 years experience teaching subjects related to the electrical and oceanic engineering field:

**Technical University of Nova Scotia (Now is Dalhousie University), Halifax, N.S.:**

1992-1993: Course Developer / Instructor (Continuing Education)

1987-1992: Adjunct Associate Professor and Research Engineer,

**Dalhousie University** Faculty of Engineering.

1983-1987: Adjunct Assistant Professor and Research Engineer,

**Dalhousie University** Faculty of Engineering.

**Memorial University of Newfoundland (MUN), St. John's, NF, Canada:**

1981: Post Doctoral Fellow, MUN Faculty of Engineering.

1973-1980: Teaching and Research Assistant, MUN Faculty of Engineering (Ocean Engineering Research).

1978: Member of the joint Scientific Cruise: MUN Oceans Engineering Group/ Bedford Institute of Oceanography, CSS Hudson/ and Huntex Limited (For Hibernia Oil Project)

**University of Alberta, Edmonton, Alberta, Canada:**

1969-1971: Graduate Student and Teaching Assistant, Electrical Engineering Department

**AWARDS & PROFESSIONAL MEMBERSHIPS:**

- ◆ Recipient of the "J.J. Archambault Eastern Canada Council Merit Award" "For Sustained Technical Leadership with Exceptional Dedication and Services to the IEEE/Canadian Atlantic Section and the IEEE/Eastern Canada Council", Montreal, Qc., Canada, May'2003.
- ◆ Recipient of the Wally Read Service Award for Outstanding Service and Contributions to IEEE, Canada, Toronto, Canada, May' 2001.
- ◆ The Institute of Electrical and Electronics Engineers (IEEE) Third Millennium Medal with Citation "In Recognition and Appreciation of Valued Services and Outstanding

Contributions in Their Respective Areas of Activity as Ocean Engineering", Providence, R.I, Sept.' 2000.

- ◆ The 1999 Institute of Electrical and Electronics Engineers/ Regional Activity Board (IEEE/RAB) ACHIEVEMENT AWARD RECIPIENT, "For Sustained Achievement in Promoting IEEE Interest in the Oceanic Engineering Community in Atlantic Canada." Halifax, N.S., May'2000.
- ◆ Fellow of the Institute of Electrical and Electronics Engineers/Oceanic Engineering Society (IEEE/OES). For "Contributions to Application of Digital system Concepts to Underwater Dynamic Motion Estimation and Marine Seismic Methods", Seattle, Wa., October' 1999.
- ◆ Fellow of the Engineering Institute of Canada (EIC), Ottawa, Ontario, May' 1997.
- ◆ IEEE/Oceanic Engineering Society DISTINGUISHED SERVICE AWARD RECIPIENT, For "Outstanding Leadership in Expanding Horizons of Oceanic Engineering Society and Promoting Oceans Conferences Beyond U.S.A. and Canada", Halifax, N.S October' 1997.
- ◆ Fellow of the Marine Technology Society (MTS), San Diego, CA., September 1985.
- ◆ Association of Universities and Collage of Canada (AUCC)/ Department of External Affairs, Going Global Award, (Genoa, Italy, August'1991)
- ◆ Member, Association of Professional Engineer of Nova Scotia (APENS), since 1981.
- ◆ Sigma Xi, the Scientific Research Society of America.
- ◆ Canadian Society of Exploration Geophysics.