

The New IEEE Technology and Engineering Management Society

By **Terrance Malkinson**
and **Michael Condry**

January 2016 marked the first anniversary of the rebirth of an IEEE Society—the IEEE Technology and Engineering Management Society (IEEE TEMS). Its roots date back to 1951 to the founding of what was then called the IEEE Engineering Management Society (EMS). This became the Technology Management Council (TMC) in 2007, and in January 2015 transitioned to TEMS (<http://ieeetems.org/>). The mission of TEMS is to advance, enhance, and improve essential management and leadership knowledge and skills of IEEE members. Its vision is to be the premier resource of essential management and leadership knowledge. The TEMS value proposition is to:

1. Help IEEE members to maintain essential engineering management skills
2. Support the leadership career path of IEEE members
3. Foster active knowledge transfer between the academic and practicing communities.

The TEMS field of interest encompasses the management sciences and practices required for defining, implementing, and managing engineering and

technology. TEMS has chapters in all 10 IEEE regions, and holds an annual international conference.

A common misconception is that management skills are only applicable to those in positions of leadership. In today's global and competitive job market; rapidly changing business environment and world economy; to be successful, every worker must accept responsibility



TEMS Publications

IEEE *Transactions on Engineering Management* is a quarterly journal published since 1954. It is dedicated to the publication of peer-reviewed original contributions, by researchers and practitioners, regarding the theory and practice of engineering, technology, and innovation management. IEEE-TEM is organized into seven departments: People and Organizations; Research & Development and Engineering Projects; Models and Methodologies; Information Technology; Manufacturing

Systems, Technology & Innovation Management, and E-Business.

The *IEEE Engineering Management Review* re-publishes papers and articles and includes original content that serves those who manage technology, engineering and innovation; engineers and non-engineers who hold strategic leadership responsibilities; and upward-bound engineers with an interest in management as a profession.

IEEE TEMS Leader is the society newsletter, published quarterly and distributed electronically to all members. IEEE TEMS Leader shall be an innovative newsletter, essential to the international technical community; providing information and services to practitioners and researchers. Articles emanate from IEEE members sharing what they have learned with other members.



and Engineering Management Society (TEMS). TEMS has started this Technical Activities Program to provide a venue for interest, growth, and new directions; addressing the many challenging topics around engineering and technology management, and moving a technical concept to a product. Please see web page <http://iee-tems.org/node/1686> for a complete overview.

As a member of an IEEE TEMS TAC you can engage in discussion, networking, proposing and chairing special sessions in conferences, chairing TEMS conferences, and contributing to publications all focused along your technical interests. Each TAC has a leader or “chair” along with a “co-chair.” Other positions may be identified by the group’s members. Each TAC will have a charter, web page and member lists. Anyone may join a TAC and engage. Some enhanced benefits will require a TEMS membership. Anyone can define a TAC and propose it to the TEMS AdCom for implementation.

and take action to manage their job responsibilities, steer their career and balance their personal life. Additionally, insights into why managers make the decisions they do reduces conflicts and misunderstandings in organizations. The reality is that even if you are not a manager, management skills and attitudes will be of enormous benefit to you. Membership in TEMS will benefit your personal and career success. To achieve success in today’s competitive and global workplace you need to think futuristically and have a holistic knowledge of the diverse factors that may impact on your life and career. New knowledge and technology quickly disrupts the status quo. Those who do not make the effort to scan the broader environment and adapt to change may unexpectedly find that their job has disappeared and that their skills are no longer needed.

Another excellent way of becoming informed and networking with others who have similar interests to yours is through a new initiative by the IEEE TEMS. Technical Activities Committees (TACs) are groups of individuals with a common technical area of interest that wish to participate in and perhaps lead technical activities and programs of the IEEE and in this case the IEEE Technology

We will be allocating some financial resources for TACs, specifically for those that engage in our conferences and publications.

TEMS in Canada

In Canada there are five IEEE TEMS Chapters located in Montreal, Ottawa, Toronto, Winnipeg and Vancouver, and over 27 others world-wide. Your engagement in IEEE Chapters is one of the more important benefits of belonging to the IEEE, providing you with unique learning and networking opportunities. The Vancouver Joint Manager Chapter, (http://vancouver.ieee.ca/content/professional_comm) together with Vancouver Section, is hosting IEEE International Symposium on Ethics in Engineering, Science, and Technology. (<http://sites.ieee.org/ethics-conference/>).

To start this program in 2016 TEMS has defined five TACs and an AdCom member to lead their creation:

- ▶ **Social Management – Leslie Martinich** lmartinich@ieee.org
- ▶ **Engineering Processes – Axel Richter** axel.richter@ieee.org
- ▶ **IT and e-Business – Liang Xi Downey** lxdowney@ieee.org
- ▶ **Future of Management – Terrance Malkinson** malkinst@telus.net
- ▶ **Technology, Innovation, Entrepreneurship – Michael Andrews** m.andrews@ieee.org

During 2016 the TEMS President-Elect Michael Condry (condry@condry.org) will oversee the entire program and its direction. Each TAC now has its own web



expense requires TEMS membership. We will be allocating some financial resources for TAC's specifically for those that engage in our conferences and publications. Our new flagship conference TEMSCON is under development. The larger the engagement, the more funding will be provided. We hope to welcome TAC chairs to some of our AdCom discussions and influence the direction of the Society.



page describing its charter and how to join. These are also available from: <http://iee-tems.org/node/1686>.

The opportunity for members to define additional TACs and make them official by AdCom approval is available to you starting in 2017. To be a chair or co-chair and receive benefits such as travel

This program establishes a key leadership pipeline for members to engage with the IEEE and Society leadership; perhaps even facilitating the transition into a leadership role if desired. Stay tuned to the TEMS website for further announcements on TAC's and visit their websites. We believe our TAC's will grow quickly and many people will become engaged in this member benefit. The concept of TAC's was introduced in the January 2016 issue of *IEEE TEMS LEADER* pages 4-5. [<http://iee-tems.org/leader>] ■

Michael Condry is IEEE TEMS President-Elect; a member of the IEEE Industrial Electronics Society AdCom; the IEEE Industry Summit Chair; and a retired Chief Technical Officer, Global Ecosystem Development, Intel Corporation.

Terrance Malkinson is a veteran contributor to the IEEE Canadian Review; he has been an associate/contributing editor since 1998. His biography can be seen on page 7.

IEEE Canadian Review

La revue canadienne de l'IEEE

The *IEEE Canadian Review* is published three times per year: mid March, end of June and mid October.

Its **principal objectives** are:

To inform Canadian members of IEEE on issues related to the impacts of technology, and its role in supporting economic development and societal benefits within Canada. To foster growth in the size and quality of Canada's pool of technology professionals to serve our increasingly knowledge-based economy.

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ISSN 1481-2002
La Bibliothèque nationale du Canada

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The circulation of the *IEEE Canadian Review* is the entire membership of IEEE Canada, plus external subscribers.

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