SC 2017 – Recommendation # 3 Implementation Plan - for Discussion – Invitation to SC2020, Ottawa, Canada

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And the collaborators through many discussions

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IEEE Advancing Technology for Humanity

Sections Congress 2017
Recommendation # 3

Strengthen and Recognize Industry, Academia, Government Collaboration and Partnerships

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Proposed Implementation Steps

1. **Suggestion/question:** recommendation to have **industry representatives on Section (Executive) Committees** (we currently have a student representative on Section Committees) as per MGA Ops Manual?

***Action* - MGA and MGA GUOS** to discuss

Status: No decision

2. Create a Section Award for Industry/Academia/Volunteer Collaboration(slide 1/2)

- It is proposed that MGA create a **nomination template for an award** to be given at the section or the chapter level (a choice made by the local volunteers): **this award would celebrate the result (innovation) of a collaboration project between industry** (a company and/or an individual representative from a company or consultant) **and academia/government** (an academic institution or government lab or an individual associated with such an organization). Ideally, there would also be IEEE volunteer involvement in this collaboration, but not necessarily
  - Involvement/enablement through IEEE volunteers might be a **separate** award category.
  - An additional option would be to take award winners at the Section/Chapter level and select a regional award winner per region and/or an MGA award winner.

2. Create a Section Award for Industry/Academia/Volunteer Collaboration (slide 2/2)

***Action* – MGA or MGA sub OUs:** awards template development, announcement of new awards template to sections/chapters

***Action* - who?:** development of Web Location (at MGA level?) to showcase these awards.

***Action:* Sections and Chapters:** implement/operationalize the award

Status: No Action at this point

3. Formation of industry groups (interest groups) at the section level

… (examples: Siemens Canada, Instrumentation and Measurement Society has a proposal to have Industry Groups). These industry groups may span multiple Chapters and/or Sections – Societies and Regions.

***Action* – MGA:** Discussion to be raised with **the IEEE Industry Engagement Committee –** proposal/idea has been discussed with Murty Polavarapu, Sergio Rapuano (IMS), Francis Grosz as well as members of the current Membership Ad-Hoc.

***Action* - MGA, TAB, Industrial Engagement Committee:** Define an operational model and determine impact (resources required)

***Action* – all: Identify existing industry groups and/or interest groups and determine what makes them successful**

***Action*: support founding of some new Interest Groups**

There is a strong ask for **local groups** focusing on **hot new technologies – like Blockchain technology** (more than **20 local groups founded** around the globe by the FDC Blockchain Initiative: for example in Kitchener-Waterloo Section, San Diego Section …) – topics may be from Future Directions, but not limited to adopted Future Direction topics.

4. **Suggestion: Develop a nimble/flexible '**(Future Technologies or Special Topics) **Group' (Interest Group) at the local level within the Section and Chapter Structure potentially** reporting up to MGA and TAB. These Groups would not belong to individual Societies; rather **they would be operating in the** (technical?) **'in-between' space.**

Action – MGA: Discussion to be raised with **the IEEE Industry Engagement Committee –** proposal/idea has been discussed with Murty Polavarapu, Sergio Rapuano (IMS), Francis Grosz as well as members of the current Membership Ad-Hoc.

Action - MGA, TAB, Industrial Engagement Committee: Define an operational model and determine impact (resources required)

***Action* – all: Identify existing 'Hot Topic' groups and/or interest groups and determine what makes them successful**

***Action*: support founding of some new Interest Groups**

5. Organize multidisciplinary Industry/Academia/Volunteer/Government events focused on 'hot' issues (slide 1/2)

The **strengths of local IEEE events** are:

- **Networking, interaction** within close communities and across multiple communities of interest – often **resulting in new partnerships** / collaborations and possibly
- **Building of communities of interest**
- **Topics tailored to** the interests / issues of **the regional / local companies, community, academia and organizations**
- **Timely featuring of 'hot topics' – hot issues** (locally relevant or of more regional or global interest) (don't have to wait for a conference a year or two later)
- **Locally delivered event series**

- It is proposed to **design a portfolio of event models** with volunteer resources and possibly incentives (for example like the model of the **STEP** program administered by Young Professionals). Some features and lessons learned may be adopted from **IEEE Metropolitan Area Workshops** (resources: MGA and Babak Beheshti).

5. Organize multidisciplinary Industry/Academia/Volunteer/Government events focused on 'hot' issues (slide 2/2)

Event models could include:

- One-day workshops
- Part-Day workshops
- Regular schedule (such as bi-monthly industry breakfasts
- Multi-disciplinary nature
- Partnerships with other organizations (Chamber of Commerce, …)
- Co-organized events at a conference

Action **– MGA, TAB and sub OU's: trial different models, produce reports and design event templates incorporating the learnings from the trial(s)**

Status: Some funding has been obtained through R7 to trial a few event models and document the events – before the end of 2019.

6. Develop a public communication platform to develop projects and share results.

- The suggested platform is **Collabratec.**

Private space for industry and collaborating partners from academia or other organizations including other industry partners – might include students – to develop projects and share results.

Action* – MGA:** Raise proposal with **the IEEE Industry Engagement Committee *and other committees?

***Action* - MGA, TAB, Industrial Engagement Committee:** Define an operational model and determine impact (resources required)

Status: The proposal is under discussion with John Day, Collabratec, to determine feasibility

7. Create a 'dating' platform to communicate Industry issues searching for solutions and possible 'applications' of research results to the solution providers -> researchers, technologists -> with the result of issue meeting solution provider.

--- please, have a look at a successful commercial example of such a matching service: ninesigma: https://www.ninesigma.com/

Ninesigma involves targeted direct mail in the matching process.

A suggested platform is Collabratec: an implementation might be similar to the matching of mentor and mentee and/or job postings and job seekers.

***Action* – MGA:** Raise proposal with **the IEEE Industry Engagement Committee.**

***Action* - MGA, TAB, Industrial Engagement Committee:** Define an operational model and determine impact (resources required)

Status: The proposal is under discussion with John Day, Collabratec, to determine feasibility

8. Addition of a ‘Technology Readiness’ Indicator for Commercialization to Xplore

In order for industrial users of Xplore to find results ready for commercialization easier, it is proposed that Xplore articles are coded with a 'commercialization ready' indicator

One option would be to use TRL levels - though that might be asking too much.

***Action* - ML:** Discussion re Technology Readiness / Commercialization Readiness Indicators with Pubs.

Status: Discussions under way with Pubs to determine feasibility.

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Thank You

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