



# IEEE Educational Activities

Programs & Capabilities with Increasing Impact

Jamie Moesch, Managing Director Educational Activities



# IEEE Goals

## IEEE Core Values



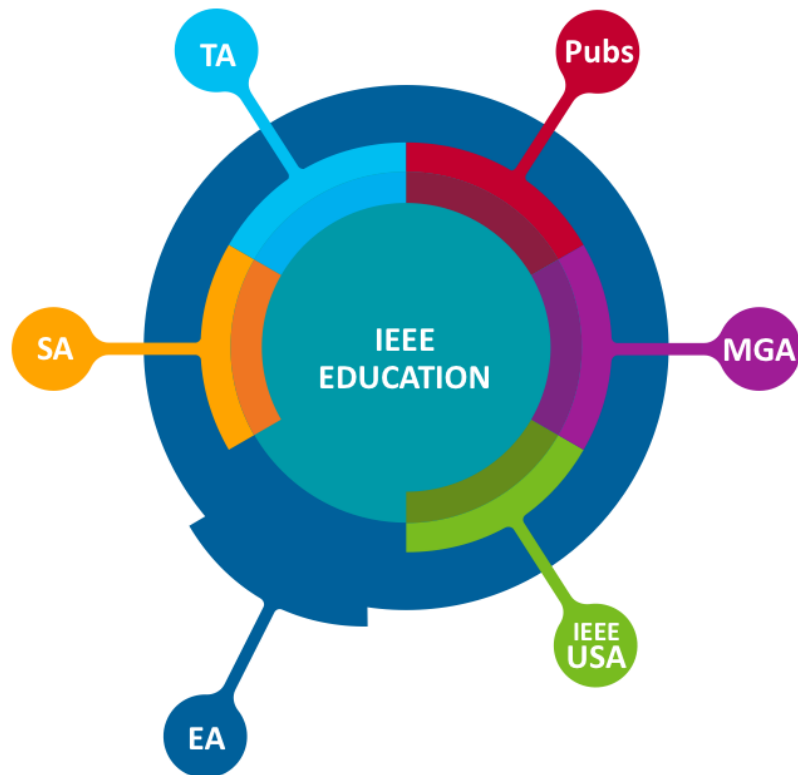
### IEEE WILL:

- Drive global innovation through broad collaboration and the sharing of knowledge
- Enhance public understanding of engineering and technology and pursue standards for their practical application
- Be a trusted source of educational service and resources to support life-long learning
- Provide opportunities for career and professional development
- Inspire a worldwide audience by building communities that advance technical interest, inform public policy, and expand knowledge for the benefit of humanity

# Education Across IEEE

Expanding our  
collective impact in  
education through:

**Coordination** and  
**Cooperation**



## IEEE Educational Activities

### *Areas of Focus*



### **Pre-University Activities**

TryEngineering.org; Teacher/Volunteer Training; Summer Institutes; TryEngineeringTogether



### **University Activities**

Accreditation Coordination; EPICS in IEEE; IEEE-Eta Kappa Nu



### **Continuing Education**

eLearning; Certificates; IEEE Learning Network

# Impact on Member Value

*Educational Activities is working to improve the value of membership*



IEEE Learning Network  
simplifying course  
discovery and  
consolidating their  
learning progress



Significant  
improvements to  
course program quality



Enhanced  
Certificate  
Program offering  
CEUs and PDHs



Micro-volunteering  
opportunities through  
Volunteer STEM Portal  
in development



Members can now find continuing education from across IEEE in one place!



Thank you to our content partners  
27 and growing



Visit ILN and start learning today!

[iln.ieee.org](http://iln.ieee.org)

# IEEE eLearning<sup>®</sup> LIBRARY Recent Developments

- New full course programs topics that are in demand
- Lowered standard pricing by up to 70%
  - Courses now US\$29 for Members, US\$19 for Students
- Numerous other discounts offered
  - E.G. IEEE Day, 10 Courses available for \$10 each

<https://ieeeday.org/ieee-day-offers/>

Learn more about free courses and discounts from across IEEE here:

<https://innovationatwork.ieee.org/iln-promotions/>



Enterprise Blockchain

AVAILABLE NOW



Automotive  
Cybersecurity



5G Networks



Artificial Intelligence  
Standards





- ▶ 14 hours of **online instruction**
- ▶ Each lesson includes modules on **reading, writing, listening, and speaking** skills
- ▶ Reoccurring characters bring the lessons to life as they interact with each other and the learner through **animated business scenarios**
- ▶ Short **assessments** and **exercises** throughout each lesson to help improve skills, with **final test** at the end of each lesson



Provides non-native English speakers with working knowledge of English techniques and vocabulary that are helpful for work in the technical workplace.



# New Programs Responding to needs during the COVID-19 Pandemic



- 6 Events
- 2,856 total registered
- Partners: Future Directions, Standards Association



- 5 Events
- 9,314 total registered
- Partner: IEEE MSD



- 5 Events
- 16,000+ total registered
- Partners: IEEE Foundation, IEEE Education Society, Digikey
- On Demand: <https://bit.ly/RLreg>



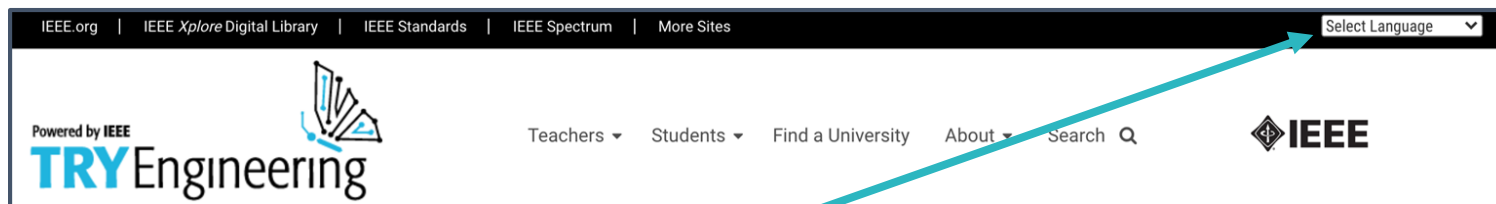
- 4 Events
- 841 total registered
- Partner: Oceanic Engineering Society



- 6 Events
- 1,908 total registered
- Partners: Engineering Tomorrow, IEEE REACH, Spectrum (ROBOTS.org)



# TryEngineering.org Translations



- ▶ **Google Translate Button**

All 108 languages are currently available

- ▶ **Lesson Translation: Launch January 2021**

Lessons will be able to be translated and printed

- ▶ **Improving Translations Pilot**

Using G-Translate, words and phrases that did not translate accurately can be edited. 3-5 volunteers are needed to pilot translation accuracy. For more information contact Dawna Schultz at [d.j.schultz@ieee.org](mailto:d.j.schultz@ieee.org).

# 2020 IEEE Board of Directors Strategic Retreat

*18-19 January 2020, Fukuoka, Japan*

- ▶ Attendees: IEEE Board of Directors, Management Council, Japan Council Chair, IEEE WIE Committee Chair, and IEEE Young Professionals Chair
- ▶ **Focused on the educational needs of our members, technical professionals, and engineers**
- ▶ Explored expanding opportunities to provide continuing education as a unique value proposition



# Observed consensus and a willingness for action towards a Continuing Education strategy.

1

## Consensus on the importance of Continuing Education for members:

At a high level, there was alignment on the value of education for expanding member value.

*"Continuing Education must be a pillar in IEEE's mission—we have all the raw materials for it." - Board Member*

2

## Need for a shared organizational vision and plan:

Board members agreed that for IEEE to move ahead with Continuing Education, in addition to consensus, there is need for a strong organization-wide strategy and plan.

*"IEEE will need an orchestrated plan and strategy for Lifelong Learning." - Board Member*

3

## Importance of internal collaboration to deliver educational offerings:

With various organizational units already providing educational offerings to members, the need for better internal collaboration to build a cohesive plan of action was articulated.

*"Success [of Continuing Education] requires buy-in across OUs." - Board Member*

# 2020 IEEE Ad Hoc Committee on Lifelong Learning and Continuing Education

## Co-Chairs



**Kazuhiro Kosuge**



**Stephen Phillips**



**Rabab Ward**



**Tom Coughlin**



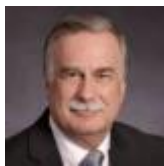
**David Durocher**



**Jill I. Gostin**



**Witold Kinsner**



**Bruce Kraemer**



**Akinori Nishihara**



**Alberto Sanchez**



**Miriam P. Sanders**

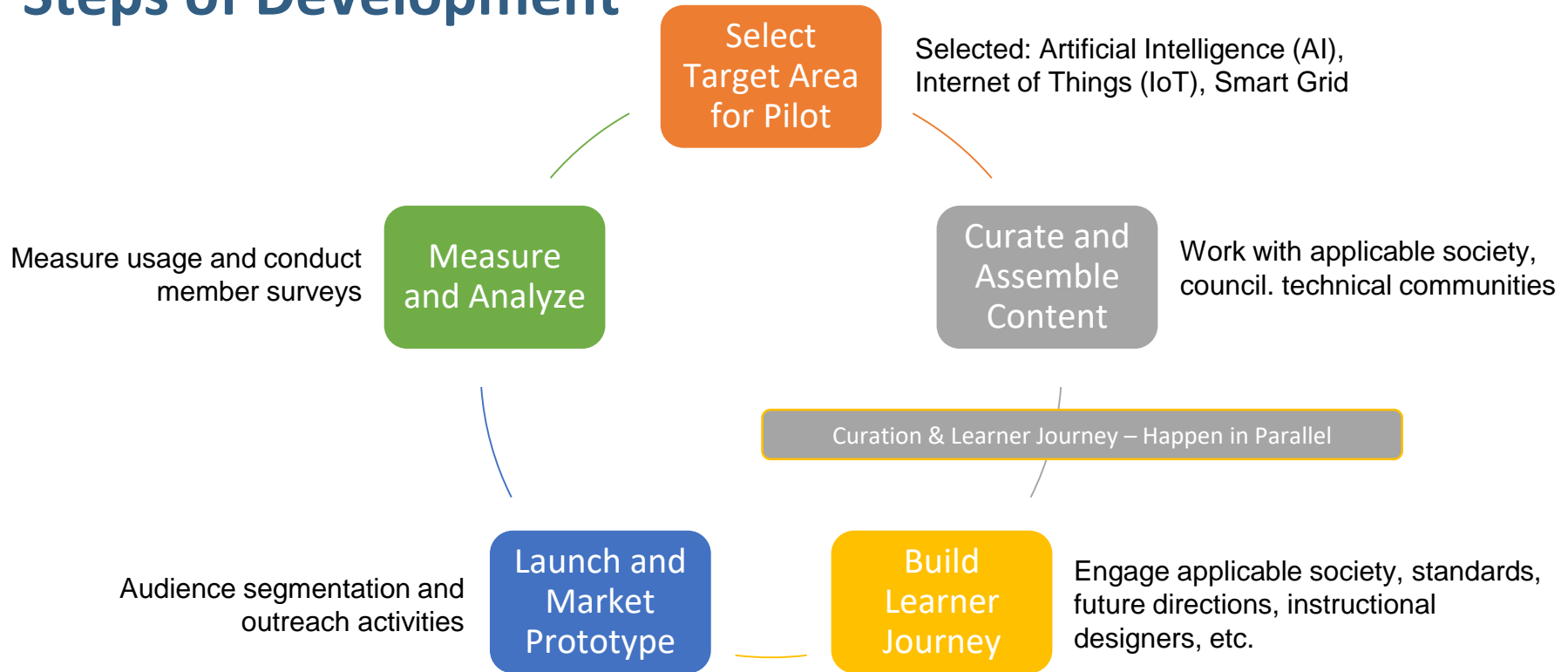


**Jamie Moesch**

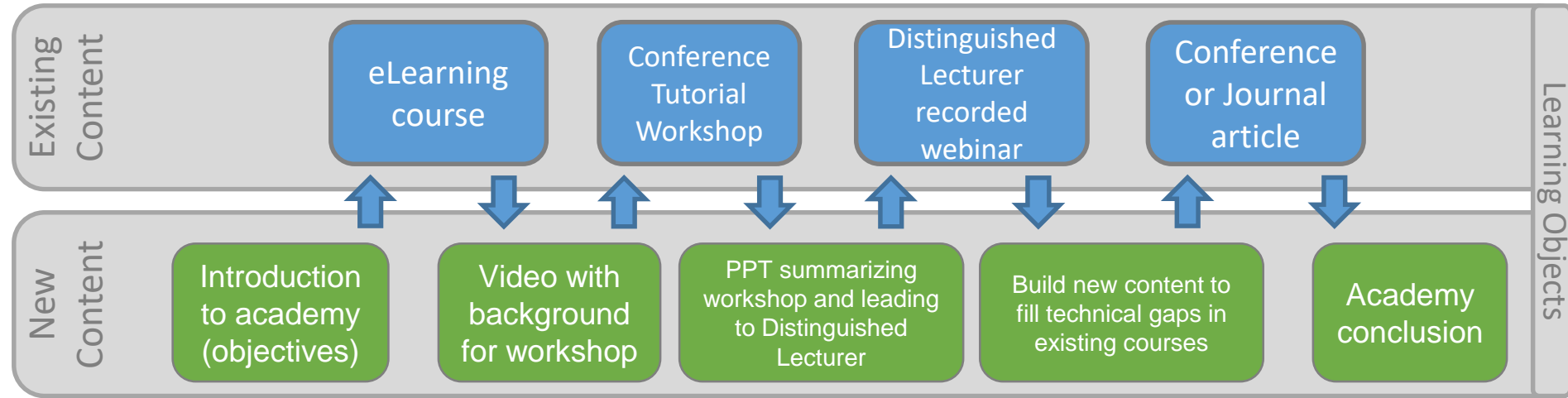


**Mary Ward-Callan**

# Steps of Development



# Learner Journey





Coming in 2021 from the IEEE Ad Hoc Committee on  
Continuing Education and Lifelong Learning

**IEEE Academy**  
*on Smart Grid*

**IEEE Academy**  
*on Artificial Intelligence*

**IEEE Academy**  
*on Internet of Things*



# EAB Awards

*IEEE Educational Activities Board (EAB) Awards recognize and honor major contributions to engineering and technical education*

Nominations Accepted mid-February to 3 May

For complete details or to nominate visit: <http://bit.ly/EABAardsProgram>

# Join the Conversation



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