

IEEE Systems Council

Workforce Development Technical Committee

6th Meeting – Oct 29, 2014, 11am Eastern

Present: Richard Millham, Walt Downing, Roger Oliva, Julia Bermejo

- Discussion on previous plan to derive information on needed educational requirements & attainment from 3 people of each IEEE Technical Society
 - Suggestion: IEEE has a well-known salary survey link, put a link on education next to it
 - Link will be an online survey with option to enter email or phone to allow follow-up interviews
- Roger: Jim Slush asked for a report as to what we are doing. May be doing a survey in area - check
- Possibility of Don from DOD leading next systems conference who is very interested in the educational aspect of STEM
- Walt: IEEE has a number of resources
 - Compile what is already available and identify gaps
- IEEE has a number of Educational Societies (200) – what are their activities?
 - Identify gaps in their activities
- Conferences with orientation seminar : entry-level professional development
 - See what percentage has this tutorial
 - Get best practices of tutorial
 - For each technical society, look at past conference agendas – determine what needs to be done
- Roger: top shortfalls of each category.
 - K-6: (primary: fundamental science)
 - 7-12: look at long term careers – good education
 - Undergraduate: more sure of goals but identify engineering education shortfalls
 - Early career: broad topics and intro to field
 - Mid-late career: specific topics
- Baseline: IEEE Education Societies
 - Build on existing knowledge
 - Have first-hand information relevant to educational interest
 - Seem to focus on instructional system design -> derive best practices for teaching
 - Conference in NZ on teaching assessment and learning
 - Need to determine issues underlying educational shortfall
- Kathy Kramer from U of San Diego is involved in accreditation process; may be interested in our work
- determine what exists and their gaps; get pilot survey feedback which will be used to identify niches
- Julita: Milo Castro
- Roger/Walt: Education Society
- Richard: contact Nicholas Beute of Educational Society of SA for further investigation

- Date of next meeting to be determined. Need to digest issues.