

Call for Papers

2008/2009 Special Issue for the IEEE Technology and Society Magazine entitled

Engineering Volunteerism

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Description: Practicing engineers have played critical roles in voluntary community service projects for many years. Large and impressive accomplishments have been achieved through individual grass-root efforts, churches, non-profit organizations, corporate citizenship programs, and government programs. In the past decade the educational infrastructure for educating the volunteer engineer has grown, both via the curriculum (e.g., service-learning) and in university-based extra-curricular activities (e.g., student organizations). In this special issue we seek to share practical experiences, best-practices, educational pedagogy, and integrative theoretical underpinnings in order to advance the state of engineering volunteerism.

Topics:

- Community service projects completed by practicing engineers and student groups:
 - Drinking water filtration, waste treatment (low cost, effective yet without adverse environmental impact)
 - Agriculture (improve yield, irrigation)
 - Low-cost housing (local materials, portability for refugees)
 - Electricity generation, wind and solar power, solar cooker, lighting (renewable energy sources, low-cost solutions to basic needs)
 - Computer technology (education support, career-development)
 - Communications technology (promote democracy, market price information)
 - Medical technology, telemedicine (promote healthcare access and quality)
- Corporate citizenship and community reach-out programs
- Government-based engineering service programs (e.g., recent Peace Corps initiatives)
- Role of engineering services in service organizations (e.g., in Habitat for Humanity)
- Student organizations (e.g., EWB or ESW), organization and projects
- University service-learning, theory, curricula, and practice
- Educational strategies for teaching engineering volunteerism, theory and practice
- Comparative studies on professional service (e.g., with law or medicine)
- Philosophical and moral foundations of volunteerism
- Global issues and international volunteerism

Schedule (tentative):

2008 or 2009 (depending on journal scheduling issues)

June: Wide advertisement, contact potential authors to invite papers

Sept.: Paper submission deadline

April: Review process complete

Production, publication

Should you have questions about the focus of this issue do not hesitate to contact K. Passino.

References:

K.M. Passino, Educating the Volunteer Engineer, To appear, Science and Engineering Ethics, 2006.

Engineers for Community Service, an engineering student organization at The Ohio State University: <http://ecos.osu.edu/>