

AEA Introduces the ABET Resolution

As part of its Student Outreach Initiative, AEA introduced the ABET Resolution (see below) to the Board of the Metropolitan Engineering Societies Council (MESC), an organization that represents over 20 Engineering Societies in NYC Metropolitan area. The Resolution was drafted by AEA in response to ABET's request for input on ABET's proposed changes to the Engineering Curriculum, i.e. Criterion 3 and Criterion 5. These changes are meant to update the Engineering Curriculum to reflect the realities of modern day Engineering practice. The Resolution was adopted by MESC and sent to ABET.

For many years, AEA has been advocating for a more holistic Engineering curriculum which would better prepare the Engineering students to address the many challenges they will face in their careers. These changes would include the non-technical knowledge, i.e. "soft skills", which would enable our future Engineers to be effective leaders in Society and thus elevate the profile of the Engineering Profession.

The AEA Board sent a letter (see below) to ABET endorsing the Resolution. AEA has been very active in getting our sister Engineering Societies to endorse the Resolution and also send letters to ABET urging them to incorporate the recommendations of the Resolution into their proposed curriculum changes.

We hope that ABET will incorporate the recommendations of the Resolution. If that happens, then we can see a dramatic change in the Engineering Curriculum which will affect all Engineering schools in the U.S. This will have a long-term beneficial effect on the Engineering Profession which can ultimately lead to raising the Profession to its rightful place among the learned professions.



METROPOLITAN ENGINEERING SOCIETIES COUNCIL, INC.

in the interest of the Engineering Profession
P.O. Box 1981, New York, New York 10008-1981

REPLY TO: Wasyl Kinach, PE

wkinach@juno.com

917-929-2127

RESOLUTION

WHEREAS: Engineering students are the future of the Engineering Profession.

WHEREAS: Engineering students will be entering a complex and challenging job market.

WHEREAS: The Engineering Curriculum has remained static despite the many technological advancements of recent years.

WHEREAS: The Engineering Curriculum has not been significantly updated for over two decades (since the 1990's when ABET published its desired outcomes criteria).

WHEREAS: There is a general understanding in the Engineering Profession that we have to revamp the Engineering Curriculum.

WHEREAS: ASCE, NSPE and other Engineering organizations have issued various proposals to address the inadequacy of the present Engineering Curriculum.

THEREFORE: It is resolved that the Engineering Curriculum be revamped to include those non-technical skills that will empower Engineering graduates to address the complex challenges of today's modern Engineering practice.

THEREFORE: It is further resolved that, as a minimum, Engineering students be exposed to the following issues and topics:

1. The role of the Engineer in Society
2. Professionalism
3. Licensure
4. Ethics
5. Leadership
6. Communications
7. Team work
8. Business/finance principles

Representing Chapters and Sections of the following professional organizations in the Metropolitan New York area:

Association for the Advancement of Cost Engineering
American Society of Civil Engineers
American Society of Plumbing Engineers
Association of Energy Engineers
Institute of Electrical and Electronics Engineers
New York Academy of Sciences
Society of Fire Protection Engineers
Municipal Engineers City of New York

American Institute of Aeronautics and Astronautics
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Safety Engineers
Municipal Engineering Society
Institute of Industrial Engineers
New York State Society of Professional Engineers
Society of Women Engineers
American Nuclear Society

American Institute of Chemical Engineers
American Society of Mechanical Engineers
Association for Facilities Engineering
Institute of Scientific Engineers
National Association of Corrosion Engineers
Society of Automotive Engineers
American Engineering Alliance

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9. Client Relations
10. Business Development
11. Contract risk
12. Engineering: a Professional service, not a commodity

THEREFORE:

It is further resolved that the Engineering Curriculum should include adequate educational training spread over the students' undergraduate studies to ensure that Engineering students understand their role as members of a noble Profession with its attendant obligations to Society and the Engineering Profession. The Engineering students should graduate from their studies with a clear understanding that they are Engineering Professionals who are fully equipped to forcefully advocate on behalf of the Engineering Profession and Society.

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American Society of Civil Engineers
American Society of Plumbing Engineers
Association of Energy Engineers
Institute of Electrical and Electronic Engineers
New York Academy of Sciences
Society of Fire Protection Engineers
Municipal Engineers City of New York

American Institute of Refrigeration and Air-Conditioning Engineers
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Safety Engineers
Barrington Engineering Society
Institute of Industrial Engineers
New York State Society of Professional Engineers
Society of Women Engineers
American Nuclear Society

American Institute of Chemical Engineers
American Society of Mechanical Engineers
Association for Facilities Engineering
Institute of Scientific and Technical Engineers
Hellenic Association of Corrosion Engineers
Society of Automotive Engineers
American Engineering Alliance



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April 25, 2016

Jane Emmet, M.A.
Director of Accreditation Operations
ABET
415 N. Charles St.
Baltimore, MD 21201

Dear Ms. Emmet,

In response to ABET's request for input on ABET's proposed changes to the Engineering Curriculum, i.e. Criterion 3 and Criterion 5, the Metropolitan Engineering Societies Council (MESCC), offers the attached Resolution. This Resolution reflects the sentiment of the Engineering Community of New York City.

MESCC is comprised of over 20 Engineering Societies. Representatives of these Engineering Societies meet monthly to discuss issues relevant to the Engineering Profession. The mission of MESCC is to promote the Engineering Profession in New York City.

Of particular interest to MESCC is the education of Engineering students, the future of the Engineering Profession. To ensure that future Engineers have the skill sets necessary to address the many challenges they will face, it is imperative that the Engineering curriculum be revamped. We applaud ABET for undertaking this necessary task. We now ask ABET to incorporate the recommendations stated in the enclosed Resolution.

Best Regards,

Wasyl Kinach, PE
Chair, MESCC

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American Society of Civil Engineers
American Society of Plumbing Engineers
Association of Energy Engineers
Institute of Electrical and Electronics Engineers
New York Academy of Sciences
Society of Fire Protection Engineers
Municipal Engineers City of New York

American Institute of Aeronautics and Astronautics
American Society of Heating, Refrigerating and Air Conditioning Engineers
American Society of Safety Engineers
Illustrating Engineering Society
Institute of Industrial Engineers
New York State Society of Professional Engineers
Society of Women Engineers
American Nuclear Society

American Institute of Chemical Engineers
American Society of Mechanical Engineers
Association for Facilities Engineering
Engineers et Genealogues de France
National Association of Consulting Engineers
Society of Automotive Engineers
American Engineering Alliance



AMERICAN ENGINEERING ALLIANCE

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Jane Emmet, M.A.
Director of Accreditation Operations
ABET
415 N. Charles St.
Baltimore, MD, 21201

Dear Ms. Emmet,

The Board of the American Engineering Alliance (AEA) has reviewed and approved the enclosed Resolution. We strongly endorse its recommendations and urge ABET to incorporate them in their proposed revisions to Criterion 3 and Criterion 5.

Best Regards,

Salvatore R. Galletta, PE
Chair, AEA