



**Joint Technical Meeting
September 12, 2016**

Thinking Skill Optimization for Engineering and Manufacturing

**For more
information and to
register,**

[CLICK HERE](#)

by **September 8th**

Location:

**Grand Army of the
Republic (GAR) Hall**

416 Hamilton Blvd.
Peoria, IL 61602

Public parking lot on
corner of Madison Ave.
and Hamilton Blvd. or
Parking at Public Library
is available.

Schedule:

4:30 – 5:30
Social Hour

5:30 – 6:00
Dinner

6:00 – 7:00
Tech. Presentation

Cost Details:

\$20 for ASM, AFS or
SWE members (\$5 for
students)

\$25 for non-members
(\$10 for students)

You can pre-pay (via
PayPal invoice) or
pay at the door.

Presentation Abstract:

Educated, intelligent people everywhere bemoan the lack of critical thinking in the workplace. However, there are few who have any practical advice for what to do about this problem. There is a LinkedIn “Critical Thinking in the Workplace” group, and members promote many different services and programs that can be used to help employees work better, but all are complicated. Debbie Aliya has been working with creative and critical thinking skills methods for almost twenty years, and has gotten it down to a seven word program. Compare! Contrast! Connect! Create! Choose with Confidence! The method can be learned in an hour, but will keep benefitting the practitioner for the rest of their life. Compare and contrast are the foundation of rational thinking, the feature of the human that is vastly more developed than any other type of being. Learning to connect dots that others can't see is the essence of creative thinking, and lets us go beyond the usually limited and often undesirable options that we can see staring us in the face. Choosing consciously with confidence, specifically understanding that confidence may be low, is the key to learning from your successes and failures. The presentation will teach you how to use this simple methodology, and will highlight its benefits for the individual, and for society, over time. There will also be a few case studies showing how use of the methodology has enriched the personal and professional life of the speaker and her clients.

Presenter: Debbie Aliya

Debbie Aliya is the owner of Aliya Analytical, Inc., which was founded as Aliya Analytical in 1994, in Grand Rapids, MI, to specialize in failure analysis and prevention. What makes her approach unique is the attention to the insights of philosophy and psychology in engineering. Debbie has a BS in Metallurgy and Materials Science from Carnegie-Mellon University (Pittsburgh, PA) and an MS in Materials Science and Engineering from Northwestern University (Evanston, IL). She has served several times as Chair of the ASM International Failure Analysis Committee, and contributed several articles and participated in the editorial duties for the 2002 Metals Handbook volume on Failure Analysis. She also has a few articles in the 2004 edition of Volume 9 on Metallography. She was Chair of the Grand Rapids Chapter of the Society of Manufacturing Engineers in 1999. She has wide ranging interests, and has presented on Thinking Skill Optimization at various ASM International, Society of Manufacturing Engineers, Society of Automotive Engineers, and Machinery Failure Prevention Technology Society events. She has also taught multiple classes on Failure Analysis and Prevention, including a special topics class for graduate Materials Engineering students at Western Michigan University. She is currently the chair of the Education Committee of the new ASM Affiliate Failure Analysis Society. She has also written a science fiction novel which promotes the cultivation of clear thinking. Beta reader volunteers invited!



For more information and to register [Click Here](#) or scan the QR code to the left. If you have difficulty using the online form, please RSVP to Rachel Dressler (Dressler_Rachel_L@cat.com) or (309) 494-2499

www.asm-afs-peoria.org