

What's New

Aerospace accreditation

BSI Management Systems has been accredited to deliver AS9110 certification worldwide. BSI is among the first certification bodies in the Americas sector of the **International Aerospace Quality Group** to be accredited, which means it can now certify the full suite of accredited aerospace standards—AS9100, AS9003, AS9110, and AS9120. The AS9110 standard covers the needs of maintenance, repair, and overhaul segments and is based on AS9100. AS9110 is for companies that maintain and repair aerospace vehicles for the commercial or military sectors or those that manufacture aircraft parts under **FAA PMA** regulations. FAA 145 certified repair stations are prime candidates to seek certification under AS9110. BSI is a supporter of the International Aerospace Quality Group and the **Americas Aerospace Quality Group**.

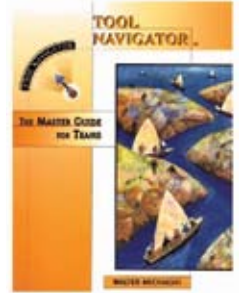
For more information, visit booth 801.

Quality Management workshops

WQN is offering the Baustein Konzept Workshops pioneered by Walter J. Michalski, which provide training for quality-improvement teams. Dr. Michalski was one of the original team members at **Motorola** when the Six Sigma concept was cre-

ated. He is a Six Sigma Master and author of five books. He has also created over 30 workshops that WQN will offer. His training has been used by many aerospace contractors that include **Hughes Electronics and Aircraft**, **AlliedSignal Aerospace**, and **Rockwell International**. Some of the workshops include Tool Navigator Workshop (pictured), Tools for Teams, Measurement Development Workshop, Team Training Workshop, Intro to Surveys and Data Analysis, Process Mapping and Cycle Time Flowcharting, and Problem Solving/Improvement Techniques.

For more information, visit booth 909.



Snake-arm robots

OC Robotics, in working with **Airbus**, has completed the build and initial testing of a demonstration snake-arm robot that can seal, swage, and inspect inside a mock-up of a rib bay. Airbus UK has worked with **Kuka** to develop aerospace robots to deliver end effector packages capable of inspection, swaging, and sealing. OC Robotics' snake-arm robot is an additional tool that the larger industrial robot would deliver. The snake-arm robot acts as a flexible extension of the industrial robot and is fed through the access hole by the Kuka robot. The snake-arm can follow a path into the wing-box and is equipped with a wrist and tool interface to allow attachment of various tools. Initial tests show the arm is flexible enough to deliver the required tools to areas of the wing-box that were previously inaccessible to automation, to perform tasks such as final sealant application and swaging.

For more information, visit booth 513.




Fire-retardant material

The FR-106 fire-retardant LS material from **Solid Concepts** is a selective-laser-sintering material that meets FAR 25.853 fire-retardant certification requirements. The polymer is a quantum leap in LS materials technology for use in the production of aerospace parts without tooling. The material (used in the pictured UAV fuel tank) will self-extinguish with wall thickness as thin as 0.03 in. It has been tested for flame retardancy in accordance with FAR 25.853, which requires that the material pass a 60-s vertical burn test with considerable margins of safety. Extinguish times are less than 1 s (with 15 s allowed) and burn lengths are less than 4 in (with 6 in allowed).


For more information, visit booth 817.





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