

Automated Fastening Conference & Exposition

Technical Session Schedule

As of 09/14/2003 08:00 pm

Tuesday September, 9

Machine Technology for a New Century of Flight

Session Code: FAS1

Room 513A-C

Session Time: 1:00 p.m.

The papers presented in this session will focus on machine technology for the advancement of assembly techniques and fastening systems.

Organizers - Paul Pareti, Lockheed Martin Space Systems Co.

Chairpersons - Paul Pareti, Lockheed Martin Space Systems Co.

Time	Paper No.	Title
1:00 p.m.	2003-01-2940	Automated Wing Drilling System for the A380-Grawde <i>Brent Thayer, Jack Brown, Jim Yinger, Scott Hogan, John Hartman, Electroimpact Inc.; Mark A. Burrows, British Aerospace Airbus, Ltd.; Jim Rowe, Airbus Industrie</i>
1:30 p.m.	2003-01-2941	Reconfigurable Tooling as a Enabling Technology for the Aerospace Industry <i>Colm Michael Mc Keown, Bombardier Aerospace</i>
2:00 p.m.	2003-01-2942	Mobile Driller for A340 Leading Edge Assembly Machine <i>Gary R. Williams, Advanced Integration Technology</i>
2:00 p.m.	CANCELLED	
2:00 p.m.	2003-01-2951	A380 Automated Spar Drilling and Fetting System (Asdafs); a Culmination of Enabling Technologies <i>Peter J. Doyle, Airbus; Steve Siegel, PaR Systems Inc.</i>

Tuesday September, 9

Assembly Automation - Supporting the Future of Flight

Session Code: FAS2

Room 513A-C

Session Time: 3:30 p.m.

The papers presented in this session will focus on machine technology for the advancement of assembly techniques and fastening systems.

Organizers - Jason McGahey, Boeing Co.

Chairpersons - Jason McGahey, Boeing Co.

Time	Paper No.	Title
3:30 p.m.	2003-01-2943	BrArtje-Igantry Automated Fastening Concept Allowing a Progressive Production Flow <i>Konrad Schwarze, Holger Mayländer, BRÖTJE-Automation GmbH</i>
4:00 p.m.	2003-01-2944	We Start With "Lean Engineering" in the Design of New Drill/Install Fastener End Effector Which Then Leads Us to "Lean Manufacturing" on the Factory Floor <i>Mark Brown, Brown Aerospace; Chris Hubert, Ron Mack, J. F. Hubert Enterprises; William Vandever, Richard M. Van Gels, Boeing Long Beach</i>

4:30 p.m.

2003-01-2945

**All Electric Rotary Head Fastening System At
Bombardier/Canadair**

*Daniel Grenier, Bombardier Canadair; Bill Mangus,
GEMCOR*

Wednesday September, 10

Machine Process Development to Enhance Fastener Installation in the Next Century: Product Specific - Panel Discussion

Session Code: FAS4

Room 513A-C

Session Time: 1:00 p.m.

Open discussion on new improvements to ease and improve fastener installation on some existing products and new products.

Organizers - Archie D. Crowe, Lockheed Martin Corp.

Chairpersons - Archie D. Crowe, Lockheed Martin Corp.

Panelists - John Hartmann, Electroimpact Inc.; Ken Benczkowski, PaR Systems, Inc.; Tom Endres, Univ. of Dayton; Holger Maylaender, Broetje Automation GmbH; Tony Goddard, GEMCOR

Wednesday September, 10

Process and Assembly Improvements

Session Code: FAS5

Room 513A-C

Session Time: 3:30 p.m.

This session includes papers that describe process improvements for existing automated fastening machines as well as new state-of-the-art computer-controlled assembly systems for the latest generation of commercial airplanes.

Organizers - Clayton Munk, Boeing Commercial Airplanes

Chairpersons - Clayton Munk, Boeing Commercial Airplanes

Time	Paper No.	Title
3:30 p.m.	2003-01-2948	Flexible High Speed Riveting Machine <i>Michael Assadi, Electroimpact Inc.; Jeff A. Truess; John L. Hartmann, Peter B. Zieve, Electroimpact Inc.; Emma King, Alan Minshull, Airbus</i>
4:00 p.m.	2003-01-2949	Exit Burr Reduction <i>Michael J. Cumming, Boeing Commercial Airplanes; Doyle Phillips, Boeing Co.</i>
4:30 p.m.	2003-01-2950	Measurement-Assisted Assembly Applications on Airbus Final Assembly Lines <i>Benoit Marguet, EADS France; Bernard P. Ribere, Airbus</i>

Thursday September, 11

New Technologies Enabling a New Approach to Assembly

Session Code: FAS6

Room 513A-C

Session Time: 10:30 a.m.

This session looks at new technologies which are enabling a new approach to assembly, both automated and semi-automated.

Organizers - Steven Brisben, Boeing

Time	Paper No.	Title
10:30 a.m.	2003-01-2952	Snark-Arm Robots-A New Tool for the Aerospace Industry <i>Rob Buckingham, OCRobotics</i>
11:00 a.m.	2003-01-2953	Portable Fastener Delivery and Installation System <i>Daniel D. Bloch, Jason D. McGahey, Boeing - St. Louis; Thomas R. Kingsbury, David N. Rosen, Alcoa Fastening Systems</i>
11:30 a.m.	2003-01-2954	Flexible Automated Riveting and Assembly of Fuselage Skin Panels <i>Phil Webb, The Univ. of Nottingham</i>

Thursday September, 11

New Developments for Improved Process Control

Session Code: FAS7

Room 513A-C

Session Time: 1:00 p.m.

Organizers - Anthony S. Goddard, GEMCOR

Time	Paper No.	Title
1:00 p.m.	2003-01-2955	Flex Track Drill <i>James Buttrick, Boeing Co.</i>
1:30 p.m.	2003-01-2956	Monitoring Machines and Processes to Improve Manufacturing Operations <i>Scot D. Lund, Boeing Co.</i>
2:00 p.m.	2003-01-2957	Digital Laser Vision in the Aerospace Industry <i>Pierre Huot, Meta Vision Systems</i>
2:30 p.m.	2003-01-2958	Womb to Tomb Spc Control of Fasteners From Rivet Manufacture to Installation Using Existing Software <i>Philippe Bornes, F2C2 Systems; Mark Brown, Brown Aerospace; Ron Mack, Chris Hubert, J. F. Hubert Enterprises</i>

Thursday September, 11

Process Improvements to Save Time & Money

Session Code: FAS3

Room 513A-C

Session Time: 3:30 p.m.

Organizers - Mark W. Smith, Lockheed Martin Aeronautics Co.

Chairpersons - Mark W. Smith, Lockheed Martin Corp.

Time	Paper No.	Title
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3:30 p.m.	2003-01-2961	6dof Metrology-Integrated Robot Control <i>Henrik Kihlman, Linköping Univ.; Raimund Loser, Leica Geosystems AG</i>
4:00 p.m.	2003-01-2962	Conversion of 2d Data to 3d to Facilitate the Use of Kbe With Fastened Assemblies <i>Chris Wilson, Robert Fannon, Ian Williams, Airbus UK</i>
4:30 p.m.	2003-01-2960	Low Cost All-Electric Fastening System <i>Thomas E. Burns, GEMCOR</i>