



CFSP Technical Workshop and Annual IAB Spring Meeting

Dates: April 22-24, 2008
Wichita State University
Wichita, KS

Tuesday, 22 April 2008 CFSP I/UCRC TECHNICAL WORKSHOP

- 7:00- 8:00 Registrations & Continental Breakfast
8:00- 8:15 Welcome
8:15- 9:15 Review of South Dakota School of Mines & Technology projects (Arbegast)
CFSP04-AMP-02: Intelligent Process Control Algorithms (Complete)
CFSP05-AMP-01: CFSP/CNDE TIE- Effects of Defects in FSW (Complete)
CFSP07-AMP-01: FSW of Titanium Beam Structures (Current)
CFSP07-AMP-03: Refill FSSW of Magnesium Structures (Current)
CFSP07-AMP-04: Distortion Control in Stiffened Structures (Current)
CFSP07-AMP-05: NSF REU Supplemental - IUCRC Management Tools (Complete)
CFSP08-AMP-01 (P): FSW of Gray Cast Iron (Proposed)
CFSP08-AMP-02 (P): NSF Supplemental / VT- Automated Database Tools (Proposed)
9:15- 10:15 Reviews of University of South Carolina Projects (Reynolds)
CFSP04-USC-01: Thermal Management of Aluminum FSW (Current)
CFSP04-USC-02: Improved Weldability of Titanium Alloys (Current)
CFSP06-USC-01: Dissimilar Metal FSW of Aluminum to Magnesium (Current)
CFSP07-USC -01: Supplemental -Control and Response Variable in FSW (Current)
CFSP08-USC-01 (P): Mg Joint Project / USC Task> (Proposed)
10:15- 10:30 Break
10:30- 11:00 IAB Presentations
11:00- 12:00 Reviews of Brigham Young University Projects (Nelson et al)
CFSP04-BYU-01: FSW of X-65 Steels (Complete)
CFSP04-BYU-02: FSW of Austenitic Alloys (Complete)
CFSP06-BYU-01: FSW Tool design study (Current)
CFSP07-BYU-01: FSW&P of Nickel Base Superalloy (Current)
CFSP07-BYU-02: FSW Higher strength HSLA steels (Current)
CFSP07-BYU-03: Comparisons of FSP Models in 304L (Current)
CFSP07-BYU-04: Supplemental -Control and Response Variable in FSW (Current)
12:00- 1:00 Lunch
1:00- 2:00 Reviews of Missouri University of Science and Technology projects (Mishra)
CFSP05-UMR-01: Friction Stir Microstructural Modification (Current)
CFSP05-UMR-02: Robotic Friction Stir Welding of Thin Sheets (Complete)
CFSP06-UMR-01: E-Design and the FSW Process (VPI TIE) (Complete)
CFSP06-UMR-02: Friction Stir Spot Welding (Complete)
CFSP08-MST-01 (P): Mg Joint Project / MST Task > (Proposed)
2:00- 2:30 IAB Presentations
2:30- 2:45 Break
2:45- 3:45 Reviews of Wichita State University Projects (Burford)
CFSP07-WSU-01: Performance of Discontinuous FSW (Current)
CFSP07-WSU-02: Faying Surface Treatments of FSSW (Current)
CFSP07-WSU-03: "Low" Z force FSSW (Current)
CFSP08-WSU-01 (P): Mg Joint Project / WSU Task > (Proposed)
CFSP08-WSU-02 (P): FSW Lap Weld Analysis with FSW Tool Software 2.0 (Proposed)
3:45- 4:30 Wrap-up and review of second day activities
4:30 - 10:00 Tour & Dinner at the Kansas Cosmosphere & Space Center



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Wednesday, 23 April 2008 CFSP I/UCRC SPRING MEETING

- 7:45- 8:00 Registrations
- 8:00- 8:10 Welcome (Dr. David McDonald – VP Research, WSU / confirming)
- 8:10- 8:20 Introductions of Participants (Arbegast)
- 8:20- 8:40 Dr. Rathindra (Babu) DasGupta (NSF) and Dr. Ron Beck (Center Evaluator)
- 8:40- 9:00 State-of-the-Centers (Arbegast)

Review and Life Forms for Current and Continuing Projects

- 9:00- 9:10 CFSP07-AMP-01: FSW of Titanium Beam Structures
- 9:10- 9:20 CFSP07-AMP-03: Refill FSSW of Magnesium Structures
- 9:20- 9:30 CFSP07-AMP-04: Distortion Control in Stiffened Structures
- 9:30- 9:40 CFSP05-UMR-01: Friction Stir Microstructural Modification
- 9:40- 9:50 CFSP06-BYU-01: FSW Tool design study
- 9:50- 10:00 CFSP07-BYU-01: FSW&P of Nickel Base Superalloy

10:00- 10:30 Break and Poster Session

- 10:30- 10:40 CFSP07-BYU-02: FSW Higher strength HSLA steels
- 10:40- 10:50 CFSP07-BYU-03: Comparisons of FSP Models in 304L
- 10:50- 11:00 CFSP07-WSU-01: Performance of Discontinuous FSW
- 11:00- 11:10 CFSP07-WSU-02: Faying Surface Treatments of FSSW
- 11:10- 11:20 CFSP07-WSU-03: "Low" Z force FSSW
- 11:20- 11:30 CFSP04-USC-01: Thermal Management of Aluminum FSW
- 11:30- 11:40 CFSP04-USC-02: Improved Weldability of Titanium Alloys
- 11:40- 11:50 CFSP06-USC-03: Dissimilar Metal FSW of Aluminum to Magnesium

11:50- 1:00 Lunch

- 1:00- 1:30 Center Business (Baumann & Sorensen)
- 1:30- 2:15 IAB Closed Meeting / Site Director Meeting
- 2:15- 2:30 Technology Road Map Discussion

New Project Proposals

- 2:30- 2:40 CFSP08-AMP-01 (P): FSW of Gray Cast Iron
- 2:40- 2:50 CFSP08-MST-01 (P): Mg Joint Project / MST Task > (Proposed)
- 2:50- 3:00 CFSP08-WSU-01 (P): Mg Joint Project / WSU Task > (Proposed)
- 3:00- 3:10 CFSP08-USC-01 (P): Mg Joint Project / USC Task> (Proposed)
- 3:10- 3:20 CFSP08-WSU-02 (P): FSW Lap Weld Analysis with FSW Tool Software 2.0 (Proposed)

3:20 - 4:30 Wrap-up and Discussions

4:30 - 8:30 Tour & Dinner at the Cessna Citation Assembly Plant



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Thursday, 24 April 2008 CFSP I/UCRC Spring Meeting

8:00- 8:05 Handout Life Form Summaries to IAB

8:05- 9:00 Site/Sponsor Meetings to discuss life forms

9:00- 10:00 Life form review for entire IAB

10:10- 10:15 Break

10:15- 11:30 IAB Meeting

11:30- 12:00 IAB feedback

12:00- 1:00 Box Lunch

1:00 Adjourn / Tour of NIAR Full Scale Test Facility (at Hawker Beechcraft)