



## CFSP Technical Workshop and Annual IAB Spring Meeting

Dates: November 3-5, 2009  
Rushmore Plaza Civic Center (Ponderosa Room)  
Rapid City, South Dakota, USA

### Tuesday, 03 November 2009, CFSP I/UCRC TECHNICAL WORKSHOP

7:45- 8:00 Registrations

8:00- 8:15 Welcome and Introduction of Participants (Dr. Ron White, SDSMT VPR)

#### 8:15- 9:15 South Dakota School of Mines Technical Presentation (Arbegast/West/Fick)

CFSP07-AMP-01: FSW of Titanium Beam Structures (*Current*)

CFSP07-AMP-04: Distortion Control in Stiffened Structures (*Current*)

CFSP08-AMP-01: FSW of Gray Cast Iron (*Current*)

CFSP09-AMP-01: Repair of F-15 wings (*current*)

CFSP09-AMP-02: REU Supplemental- FSSW Repair of Cracked Skins (*Current*)

CFSP09-AMP-03(P): LAM of High Temperature FSW pin tools (*Proposed*)

#### 9:15- 10:15 BYU Technical Presentations (Nelson/Sorensen)

CFSP07-BYU-02: Expanding Capabilities in FSW of HSLA Steels (*Current*)

CFSP06-BYU-01: Design of CS4 Pin Tools (*Ending*)

CFSP07-BYU-03: Comparisons of FSP Models in 304L (*Current*)

CFSP07-BYU-04(S): Fundamental Aspects of Control and Response Variable (*Ending*)

10:15- 10:30 Breaks and Poster Session

#### 10:30- 11:30 Wichita State University Technical Presentations (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-02: FSW Lap Weld Analysis with FSW Tool Software 2.0 (*Current*)

CFSP09-WSU-01(S): Formability/Structural Integrity of FSW (TIE program-VCU) (*Current*)

11:30- 12:15 Lunch

#### 12:15- 1:15 Missouri S&T Technical Presentation (Mishra)

CFSP05-UMR-01: Friction Stir Microstructural Modification (*Current*)

CFSP08-MST-01: Mg Sheet Joining (*Current*)

#### 1:15- 2:15 USC Technical Presentations (Reynolds)

CFSP07-USC-01(S): Fundamental Aspects of Control and Response Variable (*Ending*)

CFSP04-USC-01: Thermal management of aluminum alloy welding (*Current*)

CFSP04-USC-02: Improved Weldability of Titanium Alloys (*Current*)

CFSP06-USC-01: Al-Mg Dissimilar alloys welding (*Current*)

CFSP09-USC-01: Pre-weld natural aging time effect on post weld properties of W-Temper 7XXX FSW (*Current*)

2:15- 2:30 Breaks and Poster Session

2:30- 3:00 IAB Presentations

3:00- 4:15 Site Break-out sessions

4:15- 5:00 Wrap-up and review of next day activities

6:00- 8:30 Reception/Dinner TBD



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Wednesday, 04 November 2009 CFSP I/UCRC FALL MEETING

- 7:45- 8:00 Registrations
8:00- 8:10 Introductions of Participants (Arbegast)
8:10- 8:30 Dr. Rathindra "Babu" DasGupta (NSF) and Dr. Ron Beck (Center Evaluator)
8:30- 9:00 State-of-the-Centers (Arbegast)

Management Reviews and Life Forms for Current and Continuing Projects

- 9:00- 9:10 LIFE FORMS Logins and Instructions
9:10- 9:20 CFSP07-AMP-01: FSW of Titanium Beam Structures
9:20- 9:30 CFSP07-AMP-04: Distortion Control in Stiffened Structures
9:30- 9:40 CFSP08-AMP-01: FSW of Gray Cast Iron
9:40- 9:50 CFSP09-AMP-01: Repair of F-15 wings
9:50- 10:00 CFSP09-AMP-02: REU Supplemental- FSSW Repair of Cracked Skins
10:00- 10:10 CFSP09-AMP-03(P): LAM of High Temperature FSW pin tools (Proposed)
10:10- 10:20 Break
10:20- 10:30 CFSP07-BYU-02: Expanding Capabilities in FSW of HSLA Steels
10:30- 10:40 CFSP06-BYU-01: Design of CS4 Pin Tools
10:40- 10:50 CFSP07-BYU-03: Comparisons of FSP Models in 304L
10:50- 11:00 CFSP05-UMR-01: Friction Stir Microstructural Modification
11:00 - 11:10 CFSP08-MST-01: Mg Sheet Joining
11:10- 11:20 CFSP04-USC-01: Thermal Management of Aluminum FSW
11:20- 11:30 CFSP04-USC-02: Improved Weldability of Titanium Alloys
11:30- 11:40 CFSP06-USC-01: Dissimilar Metal FSW of Aluminum to Magnesium
11:40- 11:50 CFSP09-USC-01: Pre-weld natural aging time effect on post weld properties of W-Temper 7XXX FSW
11:50- 12:50 Lunch
12:50- 1:00 CFSP07-WSU-01: Performance of Discontinuous FSW
1:00- 1:10 CFSP07-WSU-02: Faying Surface Treatments of FSSW
1:10- 1:20 CFSP07-WSU-03: "Low" Z force FSSW
1:20- 1:30 CFSP08-WSU-02: FSW Lap Weld Analysis with FSW Tool Software 2.0
1:30- 1:40 Break
1:40- 2:00 Center Business
New Membership Marketing Strategies
"In Kind" Members Restrictions
Post Doc Training Programs
2:00- 3:45 Site Breakout Sessions
2:45- 3:30 IAB Closed Meeting / Site Director Meeting
3:30- 4:15 Technology Road Map Discussion
4:15 - 4:30 Wrap-up
6:00 - 8:30 Dinner TBD



## **CFSP Technical Workshop and Annual IAB Spring Meeting**

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### **Thursday, 05 November 2009 CFSP I/UCRC Fall Meeting**

<b>8:00-</b>	<b>8:05</b>	<b>Handout Life Form Summaries to IAB</b>
<b>8:05-</b>	<b>9:00</b>	<b>Site/Sponsor Meetings to discuss life forms</b>
<b>9:00-</b>	<b>10:00</b>	<b>Life form review for entire IAB</b>
<b>10:10-</b>	<b>10:15</b>	<b>Break</b>
<b>10:15-</b>	<b>11:30</b>	<b>Closed IAB Meeting</b>
<b>11:30-</b>	<b>12:00</b>	<b>IAB feedback</b>
<b>12:00 -</b>	<b>12:15</b>	<b>Discussion of Next Meeting Dates</b>
<b>12:15</b>		<b>Adjourn</b>
<b>1:00</b>		<b>Optional AMP Lab tour</b>