

**SERDP/ESTCP Workshop – Surface Finishing and Repair Issues for Sustaining New Military Aircraft**  
**Fiesta Resort and Conference Center, Tempe, AZ**  
**February 26-28, 2008**

**Meeting agenda - FINAL**

**Tuesday February 26, 2008**

7:30 AM **Continental breakfast**

8:00 AM **Registration**

<b>Session 1 Introduction and general information on specific platforms</b>			
8:30 AM	Introduction - workshop purpose and structure	Keith Legg	Rowan
8:35 AM	Intro to SERDP/ESTCP and ASETS Defense	Bruce Sartwell	SERDP/ESTCP
8:45 AM	Management of toxic materials in DoD	Carole LeBlanc	Emerging Contaminants
9:05 AM	Air Force Corrosion Prevention and Control Program	Capt. Daniel Doak	WR-ALC, AF Corrosion Office
9:35 AM	F-35 philosophy for manufacture and sustainment	Scott Fetter, Robert Trice	Lockheed-Martin
10:05 AM	<b>Break</b>		
10:25 AM	Boeing Rotorcraft	Bob Schreiber, Douglas Knapp	Boeing
10:45 AM	F-22 sustainability - Supporting mission and operational success	Arline Denny	Lockheed-Martin
11:15 AM	Boeing Commercial Aircraft	Joe Osborne	Boeing
<b>Session 2 New materials</b>			
11:40 AM	Elimination of CuBe bushings from F-35	Jim Bietsch, Robert Trice, Scott Fetter	Lockheed-Martin
12:00 PM	<b>Lunch</b>		
1:15 PM	Corrosion resistant steels and CuBe alternatives	Charles Kuehmann	QuesTek Innovations
1:45 PM	Progress on S53 for Rotary Gear Actuators	Ryan Josephson, Keith Legg	Ogden ALC, Rowan
<b>Session 3 Cleaning</b>			
2:00 PM	Navy cleanability, corrosion and mildew issues	Craig Matzdorf	NAVAIR PAX
2:30 PM	Joint Solvent Substitution Working Group	Wayne Ziegler	Army Research Lab
3:00 PM	Dem-val of high performance CPCs for interiors	EI Sayed Arafat	NAVAIR PAX
3:15 PM	<b>Break</b>		
<b>Session 4 NDI</b>			
3:35 PM	Microwave NDE for detecting various conditions under	Gary Schmidt	SMRC
4:05 PM	Infrared NDI of corrosion under coatings	John Weir	Northrop-Grumman
4:25 PM	Laser-Ultrasonic Evaluation of Thermal Spray Coatings	Silvio Kruger	NRC-IMI
4:45 PM	NDI demonstrations	Gary Schmidt	SMRC
6:00-8:00 PM	<b>Reception</b>		

## Wednesday February 27, 2008

7:30 AM Continental breakfast

<b>Session 5 Hard chrome replacements</b>			
8:00 AM	HVOF implementation issues for OEMs	Silvain St-Onge	Messier-Dowty
8:20 AM	HVOF implementation at Hill AFB – update	Ryan Josephson and	Hill AFB, ES3
8:50 AM	Nano-Composite thermal spray alternative to Cd and Cr	Greg Engleman	Powdermet Inc
9:05 AM	Cold Plasma, New levels of control over coating stress and Substrate Temperature	David Hawley	Sulzer Metco
9:20 AM	Summary of HCAT Helicopter Dynamic Components Project	Keith Legg	Rowan
9:35 AM	Repair of hard chrome and HVOF by brush Ni	Mary Gilman	Boeing
9:55 AM	<b>Break</b>		
10:15 AM	Properties of Electroless Ni deposits	Kurt Weamer	Electronic Chemicals OMG
10:40 AM	Nanophase Co-P electroplate status	Diana Facchini	Integran Technologies
10:55 AM	Development of nCo-P plating as a replacement for hard chrome for engine components	Nihad Ben-Salah	P&W Canada
<b>Session 6 Cd replacements</b>			
11:15 AM	JCAT update on Cd alternatives	Elizabeth Berman, Steve Brown	AFRL
11:35 AM	Results of Cd alternatives testing - PAX	Steve Brown	NAVAIR
12:00 PM	<b>Lunch</b>		
1:15 PM	AlumiPlate Cd alternative performance and usage on F-35 and F-22	Kelly Donaldson	AlumiPlate
1:35 PM	Cd alternatives: ZnNi electroplate performance, repair of Al coatings	Steve Gaydos	Boeing, St Louis
1:55 PM	Repair of IVD Al and Mg alloys using portable Kinetic Metallization	Ralph Tapphorn	Innovati
2:10 PM	Low pressure cold spray systems for corrosion protection	Julio Villafuerte	Centerline Ltd
2:25 PM	Nanostructured Zn-Ni alloys for Cd replacement on fasteners	Jonathan McCrea	Integran Technologies
2:35 PM	<b>Break</b>		
<b>Session 7 Cr6+ surface treatments and process control</b>			
2:55 PM	Getting good performance with Cr6+ alternative treatments	Steve Gaydos	Boeing
3:15 PM	Surface preparation for repair bonding	Kay Blohowiak	Boeing Seattle
3:40 PM	Non-chromate implementation	Craig Matzdorf	NAVAIR
4:00 PM	Optimising tooling for plating processes	Alan Rose	Elsyca NV
4:20 PM	Process analysis and control for minimizing waste in depot operations	Peter Gallerani	Integrated Technologies
4:40 PM	Low Cr and non-Cr metallic-ceramics	Bruce Bodger	DemVal Inc.
5:00 PM	END		

**Thursday February 28, 2008**7:30 AM **Continental breakfast****Session 8 Systems and components**

8:00 AM	PEWG developments	Mickey Conklin	PEWG
8:15 AM	Precoated fasteners	Fred Lancaster	NAVAIR
8:35 AM	NDI and repair of Tagnite coated Mg	Stephen (Scott) Howison	AMCOM
8:55 AM	Cold spray for repair of Mg gearboxes and other applications	Phil Leyman	ARL

**Session 9 Paints, primers and sealants**

9:15 AM	Non-Cr primer performance and specification - F-35	Robert Trice	Lockheed-Martin
9:45 AM	Break		
10:05 AM	U.S. Army Aviation & Missile Command Hexavalent Chromium Coatings Replacement Program	Paul Robinson	Mantech SRS
10:25 AM	UV curable paint systems	Nese Orbey	Foster-Miller
10:45 AM	Multifunctional UV coatings and Ce-based materials	Matt O'Keefe	U. Missouri - Rolla
11:10 AM	Organic coatings projects	Mary Gilman	Boeing C-17
11:40 AM	Environmentally advantaged powder coating for aerospace applications	Chris Geib	SAIC
12:00 PM	<b>Lunch</b>		

**Session 10 Coating removal, stripping**

1:15 PM	Water jet stripping of HVOF and other coatings	Jay Randolph, Mohan Vijay	ES3, VLN Advanced Technologies
1:35 PM	Compliant Removers for Aircraft Sealants and Specialty Coatings - ESTCP project ongoing	James Tankersley	Battelle
1:55 PM	Destruction of LO-coated composite	Scott Fetter	Lockheed-Martin
2:10 PM	<b>Break</b>		

**Session 11 Discussion**

2:30 PM	<b>Discussion: Regulations, technologies, issue</b>		
3:45 PM	<b>END</b>		