



# American Welding Society

Inland Empire Section Newsletter

**AWS  
SECTION  
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371-1741

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**When: Thursday, March 11, 2010**

**Program: "Overview and Application of Plasma Sprayed Refractory Carbides"**

**By David Koch**

Refractory carbide ceramics see use in some of the most extreme environments due to their excellent high temperature resistance, abrasion resistance, high hardness, and low reactivity with highly corrosive atmospheres. Their use has significantly increased in recent years due to the demand in many manufacturing fields for lighter weight components capable of operating in ever harsher environments.

Great advances have been made in recent years that allow refractory carbides to be plasma sprayed in applications that weren't possible even 10 years ago. One such application involves the retirement of traditional piston sleeves in light metal alloy engine blocks in favor of using plasma sprayed coatings. This lecture will cover the basics of the plasma spray process as it pertains to refractory carbides, their current uses in industry, and future research.

David Koch is currently a student at Washington State University attending his last semester in Materials Engineering. He has been involved in the AWS for 6 years, 5 of which have been on the local Executive Committee. He holds two degrees from Columbia Basin College's vocational department; one in Welding Technology and the other in Machine Technology. His previous work experience as a pipe welder includes plant maintenance construction in the petro-chemical and paper/wood products industries.

**Where:** Applebee's, 606 N. Columbia Center Blvd. (back conference room).

**Directions:**

1. Head south on Columbia Center Blvd. from Hwy 240.
2. Drive approximately 1 mile just past W. Okanogan and Applebee's is located on the left side of the road.

**Time:** Meal at 6:00 P.M. Program to start at 7:00 P.M.

**Cost:** Seminar is free. Note, Applebee's would like all to purchase around a \$10 meal / drinks for the use of their conference room.

## FUTURE AWS MEETINGS

Month	Speaker	Topic	Date
Mar 2010	Dave Koch	Plasma spray refractory carbides overview	11 March 2010
April 2010	Rob Davis	WTP Ultra filter overview	21 April 2010

### **Section News:**

- 1 This year the Inland Empire Section of the AWS will continue stamping meeting notices with a stamp for PDH (Professional Development Hours). This has been working out very well.
  
- 2 The Inland Empire is now sending meeting notices by E-mail only. If anyone receives this notice from a friend and would like to get added to our mailing in the future please contact Ron Silver at [rsilver@oxarc.com](mailto:rsilver@oxarc.com).
  
- 3 The Inland Empire Section is going to have a Web page in the not-to-distant future. Andrew Wilson will be taking care of the page. The monthly notices will be posted there. The web page will be through the AWS. It will be listed on this attached Web page. <http://www.aws.org/w/a/sections/districts/district19.html> then go to the Inland Empire part on the page and our address.

### **PUBLICATIONS:**

Save \$\$\$ and Support Your Local AWS Section. The AWS Inland Empire Section can save you money on AWS codes and standards. You pay the member cost only. The Section pays shipping and handling charges (except when expedited shipping is requested), and there is NO tax. That results in savings of almost 20%.

**CONTACT: John Sisk** at E-mail: [JJSMAS@ALUMNI.CALPOLY.EDU](mailto:JJSMAS@ALUMNI.CALPOLY.EDU)

Proceeds from the Section publication sales go to our scholarship fund, and to fund other AWS activities.