

AMERICAN WELDING SOCIETY, INC.

San Francisco Section



## Technical Dinner Meeting

May 2, 2012

### **“Remote Welding on Nuclear Containment Vessels”**

**Mario J. Lento, guest speaker**

Social Period: 6:00 - 6:30 p.m.

Dinner: 6:30 - 7:45 p.m.

Guest Speaker: 7:45 - 9:00 p.m.

Place:

Spenger's Restaurant  
1919 4th St. (off University Ave.)  
Berkeley, CA

Cost: \$25 per member or guest  
with reservations

**(\$30 without reservations)**

\$15 per member retiree  
or full-time student AWS member  
with student ID  
with reservations

**(\$20 without reservations)**

ask about our 9-for-6 “meal deal”

**Cash or check ONLY**

**Reservations: Contact**

**Liisa Pine: 510-206-5728**

**eMail: sfawsdinner@Gmail.com**

**by Thursday, April 26th**

**Please make a menu selection with  
your reservation:**

*Parmesan Crusted English Sole with Lemon  
Butter and Crispy Capers; Grilled Chicken  
Breast Piccata; Pasta Primavera with fresh  
Seasonal Vegetables (your Choice of Alfredo,  
Marinara or Pesto Sauce)*

This month's topic is the process of remote welding stainless steel spent nuclear fuel rod canisters. Some of the questions include "What is spent fuel?", "How much of it is used and

what do we consider waste?", "Why do we leave 80% of the energy in the rods instead of reprocess like in France?", and "What happens when fuel pools run out of room?"

Using engineering abstraction from a robotics point of view, Mario will compare the benefits of remote welding over manual welding, such as what constitutes welding with a remote system. How remote systems are mechanized will be described, especially the high degree of automation required for the process to be handled by trained welders. ALARA (As low as reasonably achievable) will be clarified with regard to welding lids onto the 6 foot diameter canisters.

Included also will be discussion of machine control challenges, welding techniques, and which parameters best duplicate what skilled welders can do by hand.

**Mario Lento** has extensive experience as an engineer working with complex industrial processes from semiconductor to nuclear welding to medical equipment. After beginning his career as a metallurgist working with high-strength alloys, he moved into the controls business as a Engineering Project Manager. Mr. Lento gravitated to problem solving by selling complex control solutions. In that role, Mr. Lento

has more than ten years experience selling tens of millions of dollars of motion and machine control solutions. His customers included General Electric, Boeing, Applied Materials, Novellus Systems and Siemens Medical Solutions. Mario earned his BS (Cum Laude) in Industrial Management and Electrical Engineering from the University of Lowell, Lowell Massachusetts. He has published numerous technical articles on machine control systems. Mario is an avid racing coach for racecar drivers. He is a driving instructor for NASA Pro Racing, TEAM Racing, and in 2007 won the California Region Championship for Performance Touring, class E.

### **District 22 Conference**

This year's District 22 Conference will be held on Saturday, May 5th in Capitola By The Sea. At the conference, Section Executive Committees and interested members will discuss District business, compare notes on section activities, and award scholarships as well as recipients for specific District 22 awards. The conference also features an evening cruise on Monterey Bay and a group dinner. Interested members should contact Liisa Pine Schoonmaker for further details at [liisapine@gmail.com](mailto:liisapine@gmail.com).

# April 4th Meeting

**Matt Miller** of Lincoln Electric gave a presentation on the state of the welding industry in the Bay Area and Northern California. **Liisa Pine** and **Dale Flood** spoke about opportunities and developments in AWS and the SF Section.



Speakers **Matt Miller** of Lincoln Electric, Section co-Chair **Liisa Pine**, District Director **Dale Flood**



**Liisa Pine** and **Sharon Jones** received certificates of appreciation for their service as SF Section Co-Chairs. District Director **Dale Flood** made the presentation.

The membership expresses appreciation to our patrons whose continuing support assures the success of our monthly meetings:

◆ Metallurgical, Welding & Inspection Engineering  
◆ Project Specs. & WPS Development & Review  
◆ CWI & Welding Technology Training

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22nd District Director: Dale Flood

AWS Information Line (Miami): 800/443-9353

[www.aws.org/sections/sanfran](http://www.aws.org/sections/sanfran)

### Important Dates:

**May 2, 2012**

**Technical Dinner Meeting  
Spenger's Restaurant, Berkeley**

**May 5, 2012**

**District 22 Conference  
Capitola, CA**

**September 5, 2012**

**Technical Dinner Meeting  
PAST CHAIRMEN'S NIGHT  
Spenger's Restaurant, Berkeley**