

Wednesday, November 12

Overview of Transit-Related Stray Current Corrosion and Its Control

Norman J. Moriber, P.E.
Mears/CPG, LLC

*New meeting
location!*

*Please remember to indicate a
meal selection when you sign up!*

5:30 pm Social/Networking.....6:15 pm Dinner.....7:30 pm Speaker

Meeting Location:

Michael's at Shoreline
2960 Shoreline Blvd.
Mountain View
(650)962-1014

Dinner Cost: ASM Members \$20, Students \$10, Guests \$25

Meal Choices: London Broil, Salmon, or Vegetarian

RESERVATIONS REQUIRED:

Stacy Ewert at (408) 742-2521 or stacy.s.ewert@lmco.com

Reservation deadline is 1pm on Monday, Nov 10 (\$5 late fee after this time)



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Meeting Directions

To get to **Michael's at Shoreline** from highway 101, exit at **Middlefield Rd. / Shoreline Blvd.** Head **north** on **North Shoreline Blvd.** Michael's is at the end of North Shoreline adjacent to the Shoreline golf course, about 2 miles from 101.

RETURN SERVICE REQUESTED

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Have You Moved Recently?

If so, please remember to correct your address by logging onto the national website, www.asminternational.org, where you can review and update your membership record.

About the Topic

Overview of Transit-Related Stray Current Corrosion and Its Control

Many Direct Current (dc) powered transit systems rely on the running rails for the return path that completes the circuit to the traction power substation of origin. Because these rails cannot be perfectly isolated from the earth, the earth and the metallic structures it contains become parallel paths that will conduct a portion of the system load current. Current that flows along any path other than the intended path is considered stray current. At exchange points where stray current is accumulated on a metallic structure, the effect is protective. However, at exchange points where stray current is discharged from the metallic structure to the soil electrolyte (and, eventually, back to the tracks and/or substation) the effect is corrosive with resulting loss of metal. Concentrated metal losses can put the integrity of the structure at risk, especially when a new transit system shares a construction corridor with existing utility structures that were not originally designed with transit stray currents as a consideration. This has been the case with San Jose's Guadalupe Corridor Light Rail Transit Project and its recent extensions. The presentation will provide an overview of possible stray current patterns associated with typical pipeline configurations, in addition to approaches to testing, quantifying, and mitigating these effects.

About the Speaker

Norman J. Moriber, P.E.

Mears/CPG, LLC

Norman J. Moriber graduated from the Massachusetts Institute of Technology in 1969. Mr. Moriber has actively worked in corrosion control since 1973, and has been a Registered Professional Engineer in Corrosion Engineering (California) since 1983. His areas of expertise include cathodic protection and stray currents. Mr. Moriber has been very active in the National Association of Corrosion Engineers (NACE) over the years. He has served on the NACE board of directors, as well as on various Technical Committees. He is currently serving as Chair of the Task Group on Electrical Continuity of Cathodically Protected Pipelines, and as Chair of the Technology Exchange Group on Cathodic Protection. Mr. Moriber also writes a monthly column in Materials Performance magazine. He has also received various NACE awards, including 1998 NACE Distinguished Service Award, 2000 Western Area Stratfull Award, and 2001 Western Area Engineer of the Year. Mr. Moriber is currently Chief Corrosion Engineer and Engineering Manager for Mears/CPG, LLC.

Job Opening

Honeywell Electronic Materials is looking for a Senior Development Engineer at their Spokane, WA facility. The position involves leading development projects on new products and new processes for sputtering targets used in the semiconductor industry. The individual is responsible for transferring these new products into production. This will require working in a cross-functional team environment. The Senior Development Engineer will also need to keep up to date with technology trends and use this information to recommend new manufacturing techniques and processes that will complement or expand Honeywell's core competencies.

A successful candidate will be a team player with good communication skills who is also enthusiastic, goal oriented, and self-motivated. The position requires an education in Materials Science or Metallurgical Engineering, and hands on experience in PVD. A working knowledge of 6 Sigma tools is preferred.

Interested Candidates should visit myinterconnect.com and honeywell.com to learn more about Honeywell and the Electronic Materials Division. Please submit resumes via e-mail to Dr. Susan Strothers at susan.strothers@honeywell.com.

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Upcoming Events

Nov 12: IEEE-CPMT, "OLED (Organic LED) Display Technology and Applications". Visit cpmt.org/scv/meetings/cpmt0311.html

Nov 16: AIChE, "Symposium on California's Fuel Cell Industry". Visit www.aiche-norcal.org/meetings.html

Nov 18: ASCE, "California Colloquium on Water California Colloquium on Water". Visit www.asce-sf.org

Nov 18: OSNC, "Synchrotron Radiation from Circularly-Polarized Lasers". Visit www.osnc.com

Nov 19: ASQ, "Project Management for Continuous Improvement and Six Sigma". Visit www.asq-silicon-valley.org

Nov 20: SME, "Trend Technologies Tour". Visit chapters.sme.org/098

Dec 10: IEEE-CPMT, "Outlook for the Semiconductor Equipment/Materials Market.". Visit cpmt.org/scv/meetings/cpmt0312.html

SVEC Open House

The Silicon Valley Engineering Council (SVEC) will hold their annual Open House on November 20, 2003 at SEMI (Semiconductor Equipment and Materials International). This year's Keynote Speaker is Russell Hancock, President & CEO of Joint Venture: Silicon Valley Network. His presentation is "Building the Next Silicon Valley: Strategy and Actions" Visit www.SVEC.org for more information.

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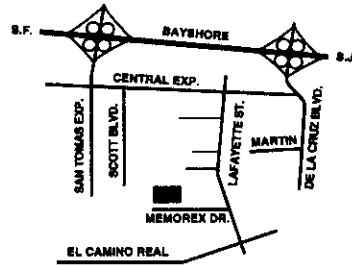
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Chapter Information & Upcoming Activities

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Vice Chair:

Ramas Raman (408)567-0941

Treasurer:

Richard Chung (408)924-3927

Secretary:

Stacy Ewert (408) 742-2521

Executive Committee

Mark Alexander (831)338-4790

Paul Fojas (510)538-7309

Ed Francis (408)653-1700

Dave Himmelblau (408)743-7893

Alfred Kwong (408)248-1916

Fred Landry (650)508-8700

Mingwei Li (650)966-5735

Lou Wirtz (408)756-0621

Shari Yokota (650)594-4065

Special Positions

SVEC Rep:

Ed Kaminski (408)241-4842

Newsletter Editor:

Scott Dickerson (408)986-3655

Thanks to our ASMI-SCV Sustaining Member:

CSU - Fresno Henry Madden Fresno

Would your company like to support the chapter by being a sustaining member? To find out more, contact Fred Landry at fred@altairusa.com.

Executive Committee Meetings: ASM-SCV Executive Committee meetings are held in September, October, January, March and May. Any member can attend! Call Jacques Matteau at (650)591-7787 for meeting times and locations, and to reserve a seat at the table.



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Upcoming Meetings: Dec: Artificial Muscle... Jan: Manufacturing of Computer Chips... Feb: Bioceramics... Mar: Flat Panel Displays... *Stay tuned for more info!*

ASMI-SCV Committees Formed - We Need Your Help!

Many of you may not know, but the Santa Clara Valley chapter of ASM has 7 committees working throughout the year to provide services to the local membership, welcome new members, and generally further the causes of ASM International on a local level. Committee chairs for the 2003-2004 season have been appointed by the Executive Committee, but we could still use some additional new faces and fresh ideas for the committees themselves! Please consider joining one of the teams and help to shape the SCV ASM the way you want it. Participation in chapter leadership is valuable to you in terms of networking with other prominent ASM members, contributing to the chapter's direction, and developing your leadership skills that will be helpful in furthering your career. This year the Committees are as follows.

Technical Program: Traditionally, this committee is chaired by the Chapter Vice Chair. The primary duty is to find and schedule speakers for the monthly dinner meetings. There is also an Arrangements Subcommittee, whose duties include collecting meeting fees, taking reservations, selecting meeting menus, arranging for presentation equipment, bringing door prizes, and finding a meeting facility from year to year. *Contact: Ramas Raman, ramas@surmet.com*

Sponsorship: This committee identifies meeting sponsors and advertisers for the chapter bulletin and website. This committee makes an important financial contribution to the chapter and provides an opportunity for member's companies to publicize their goods and services. *Contact: Dave Himmelblau, dave.himmelblau@lmco.com*

Membership: This committee encourages membership in the ASM-SVC, including Sustaining Membership (special category for corporate members). The committee welcomes new members and encourages nonmembers to attend monthly meetings and become new members. *Contact: Fred Landry, fred@altairusa.com*

Education: This committee arranges and organizes chapter education such as classes and symposia. Members interface with local universities, high schools, and the "Discover E" program. They also endorse local participation in ASM International's Materials Camp events, and assist with annual Science Fair judging. Additionally, this committee leads the ASM-SCV Chapter Scholarship selection and award activities. *Contact: Mingwei Li, mli@splasers.com*

Yearbook: This committee is charged with producing and distributing a yearbook (membership directory) for the chapter. *Contact: Shari Yokota, shari.yokota@cpii.com*

Publicity: This Committee publicizes the chapter's activities. It publishes and distributes the monthly newsletter, maintains the chapter website, submits articles to ASM International, and provides e-mail communication and other information of interest to the membership. *Contact: Scott Dickerson, scott_dickerson@amat.com*

Long Range Planning: This committee functions to develop chapter direction to meet the future needs of the members. The committee uses information obtained from member surveys and feedback from the other committees to plan the future goals of the chapter. *Contact: Jacques Matteau, Jacques@altairusa.com*