



# SPECTRANEWS

## VOICE OF THE SOUTHERN CALIFORNIA CHAPTER

### Southern California Chapter Vibration Institute Officers 2003

#### President:

Sal DiFrancia  
(562) 421-6730  
(562) 421-6890 fax  
[chiefeng@attinfrared.com](mailto:chiefeng@attinfrared.com)

#### Vice-President:

None  
(562) 491-6708  
(562) 495-5499 fax

#### Secretary:

None  
[chiefeng@gte.net](mailto:chiefeng@gte.net)

#### Treasurer:

Don Taft  
(714) 963-9092 voice / fax  
[taftd@compsys.com](mailto:taftd@compsys.com)

#### Membership Committee:

John Mitchell  
(949)-496-0873 voice / fax  
[jmitchell@worldnet.att.net](mailto:jmitchell@worldnet.att.net)

#### Sponsorship / Trade Fair Committee:

To Be Announced  
(xxx) xxx-5897  
(xxx) xxx-8720 fax

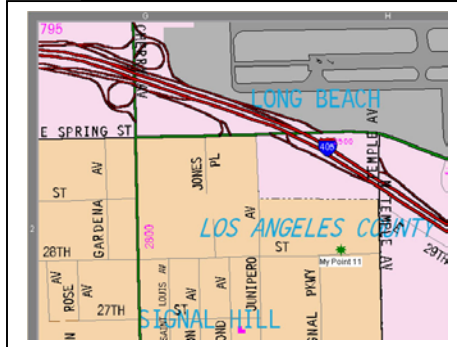
#### Technical & Training Committee:

Eric Conchea  
(310) 522-6086  
(310) 522-6019 fax  
[conchea@texaco.com](mailto:conchea@texaco.com)

To Be Announced  
(xxx) 338-7200  
(xxx) 338-7272

#### Ethical Ways & Means Committee:

Jon Palm  
(619) 938-1604  
[jpalm@metrix1.com](mailto:jpalm@metrix1.com)



### JUNE 25, 2003 MEETING: SHORT TUTORIAL RECIPROCATING INTERNAL COMBUSTION ENGINE RADIAL & TORSIONAL VIBRATION

WEDNESDAY, JUNE 25, 2003 – 2667 EAST 28TH  
STREET, SUITE 520, SIGNAL HILL, CA

#### **3:00 pm to 5:50 pm** – Tabletops Exhibit & Peanut Social. Former Exhibitors Listings: **Western**

**Energy Solutions** – Electrical Energy Equipment; **DyTran Instruments** - Transducers, Modal Hammers, **CSI Test/Analysis Software & Hardware**, **B&K Instruments** - Test/Analysis Software & Hardware; **PMC / METRIX Instruments** - Test/Analysis Software & Hardware;

**5:00 pm** – Barbecue Dinner, **Space is limited to 30 so please register early!** \$24 Members, \$15 Students, \$28 Nonmembers, \$100 Tabletops Exhibit, Visa & Master charge accepted. **Attendees:** RSVP to Sal DiFrancia, by Thursday, June 20<sup>th</sup>, by e-mail, phone or fax. **Exhibitors:** RSVP to Chief Engineering, 562-421-6730, fax 6890, e-mail [chiefeng@attinfrared.com](mailto:chiefeng@attinfrared.com)

#### **5:50 pm: OPENING SPEAKER - SUMMARY**

Eric Conchea, Shell USA, will demonstrate Critical Speed Measurements with Advanced Rotating Machinery Dynamic software and a handcrafted Machinery Fault Simulator. Eric Conchea has developed this innovating designed training device, applied ARMD™ software to resolve finite element and structural analysis, and then captured transient data to confirm his calculations. Eric Conchea is presently certified level two machinery vibration analyst with Vibration Institute.

#### **6:50 pm: Main Speaker - SUMMARY**

Guil Cornejo, RPM, will speak on Internal Combustion Reciprocating Engine sources of vibration, a brief survey including both seismic and torsional vibration.

#### **RPM&PREDICTIVE ENGR. INC.**

1960 Bandler Lane, San Diego, CA 92154 Tel/Fax 619/428-1242 E-mail: [rpmengr@cts.com](mailto:rpmengr@cts.com) / [www.rpmengr.com](http://www.rpmengr.com). Engineering predictive and protective vibration solutions for turbo-machinery and power-train systems

**RPM&PREDICTIVE-ENGR. INC.** a California, USA Corporation, is owned and operated by Guil Cornejo. The core business of **RPM & PREDICTIVE ENGR** is analysis-resolution, troubleshooting, and the timely low-cost solution of mechanical or process-induced vibration affecting multi-million dollar turbine/electric drive power trains.

**Speaker Biographical Information:** Cornejo has over 20 years of worldwide factory and field experience solving turbo-machinery and power-train vibration problems in industrial and marine applications. Cornejo was Program Manager of the Power System Vibration Laboratory at Solar Turbines, San Diego, CA, from 1991 until 1999. His focused, competent, problem solving experience in power-train vibration-process health spans over 20 years. This includes 18 years at Solar, engaged in development, analysis, troubleshooting and deciphering complex power-train vibration problems, at both the factory and customer sites worldwide, and two years at Westinghouse Electric Corp., in Sunnyvale, Ca where he was active in design, analysis and troubleshooting of submarine steam-turbine gearing power-train noise and vibration. While Program Manager of Solar Power System Vibration Laboratory, Cornejo's experience and responsibilities included development, analysis, troubleshooting/solution, and health verification of high-speed turbine rotor-rotor-train packages such as Solar's Saturn, Centaur, Taurus and Mars turbo-generators, turbo-pumps, electric-motor driven centrifugal compressors, and turbo-compressors trains (centrifugal and reciprocal). Cornejo has a M. S. degree in Mechanical Design (1977) and a terminal Degree of Engineer (1981) in Vibration from Stanford University, as well as a B.S. degree in Mechanical Engineering (1975) from the University of California Davis. He is the author/co-author of several basic and problem-resolution papers, which have been presented at ASME design/power conferences, Texas A&M Turbo-machinery Symposium and the International Vibration Institute. He holds a patent for the Hydrodynamic Bearing orbit Simulator.