

# CRITICAL FACILITIES ROUND TABLE (CFRT)

**OCTOBER 16<sup>th</sup>, 2003**  
3rd Quarterly Meeting Agenda

**BANK OF AMERICA**  
SAN FRANCISCO DATA CENTER  
1455 Market Street, San Francisco, CA

1<sup>st</sup> Floor Conference Room  
(Directions below)

Many thanks to BRIAN THARP and the Bank of America for providing the facilities, refreshments and communications to support this quarterly meeting of the Critical Facilities Round Table.

Congratulations to the High Density Data Center Cooling Committee for a successful first meeting with 50 attendees at Hewlett Packard's Palo Alto R&D data center. More on this below.

## AGENDA

- 09:00 - 09:15** Welcome and Introductions of Individuals (Name, Background, Area of Focus) by Brian Tharp, Bruce Myatt & Charles Krieger
- 09:15 - 09:30** Status Report and Review by Bruce Myatt & Charles Krieger  
Charter/ Purpose/ Organization/ Membership/ Committees/ Remote Chapters  
2<sup>nd</sup> Quarterly Meeting Minutes  
HP Data Center Tour  
Status Report on Committee Formation and Activities/ Web Site Development/ Other
- 09:30 - 09:45** Update and feedback from presenters at last meeting:  
**"Arc Flash" Requirements by NEC 2002/NFPA 70**, a discussion on the regulations and methods of compliance through system analysis and labeling for electrical facilities, by Edmund Elizalde  
**"Thermal Guidelines for Data Center Facilities and Equipment**, a study in progress by the ASHRAE TG9 Committee, HDEC (High Density Electronic Equipment Facility Cooling Group) by Magnus Herrlin, PHD
- 09:45 - 10:45** **NEW "How to Effectively Update Data Center Facilities" by Peter Gross**  
(Introduction by Charles Krieger)  
Peter Gross is the CEO and CTO of EYP Mission Critical Facilities, Inc a consulting, design and operations engineering firm with 200 employees and 8 offices nationwide. He is recognized across the world as a leader in the area of highly reliable electrical systems design and operations. Mr. Gross has over 20 years of experience with the design and engineering of power systems for data centers, institutional, and industrial facilities. During his career he has managed projects for hundreds of Fortune 1000 Companies, and has been involved with the design and commissioning of millions of square feet of raised floor space. Mr. Gross is a registered Professional Engineer in the States of NY, CA, and AZ.
- 11:00 - 12:00** **NEW "Seismic Evaluation & Design of Data Centers" by David Bonneville**  
(Introduction by Bruce Myatt)  
David Bonneville is a senior principal at Degenkolb Engineers in San Francisco. Degenkolb is a 140-person structural engineering firm that specializes in the seismic evaluation, design and upgrade of essential and

critical buildings. David is a registered Civil and Structural Engineer and has 30 years experience consulting for public and private clients. He has worked extensively over the past 15 years in the high tech area where he has completed projects related to the seismic evaluation and upgrade of several critical data centers. David is President of the Structural Engineers Association of Northern California, Chair of the Seismic Code Advisory Committee for the National Council of Structural Engineers Associations and Vice Chair of the Lateral Forces Advisory Committee for the California Building Standards Commission.

**12:00 - 12:15 Future CFRT Programs** (by Charles Krieger and Horst Pfendt)

The following additional topics are suggested for consideration:

- Establishing a "Masters" list of engineers who are experienced in the design and commissioning of computer center and high tech facilities
- Comparative analysis/function of the various UPS systems on market
- Critical assets protection through risk management, including physical security and alarms, fire suppression and hazards mitigation.
- Co-generation, distributed generation, self generation
- Other topics of interest

**12:00 – 12:15 Summary and Close** (by Steve Johnson)

**12:15 – 01:00 No Host Lunch** (TBD - Bank of America Cafeteria or Nearby Restaurants)

**01:30 – 02:30 Data Center Tour Bank of America SFDC** (by Brian Tharp) Attendance TBD

**02:30 - 03:00 Chartered Vans** from Bank of America to 365 Main Street

**03:00 - 04:00 Data Center Tour 365 Main Street** (by Chris Dolan)

**04:15 - 05:00 Hosted Bar & Reception** (by Chris Dolan)

Thanks to CHRIS DOLAN and 365 Inc. for providing the special event and reception at the end of our day.

**Thank you all for your continued support and contributions to this success from Founders of the CFRT: Charles Krieger PE, Bruce Myatt PE, Horst Pfendt, Steve Johnson**

Directions to Bank of America San Francisco Data Center:

1455 Market Street, 1<sup>st</sup> Floor

BART to downtown San Francisco stations. Exit to Muni and take Muni to Vann Ness Station. Enter Bank of America SFDC at 1455 Market Street ground floor and follow signs to Lobby (1<sup>st</sup> Floor) Conference Room.

Special Note:

Congratulations to the High Density Data Center Cooling Committee for a successful first meeting on September 5 at Hewlett Packard's Palo Alto R&D data center. We drew over 50 attendees to hear 8 HP speakers and to see new technologies in action. (Hard copies of the HP presentation are available upon request). And, Congratulations to Magnus Herrlin and Rich Greco for their selection to positions of Chair and Co-Chair of the committee. This committee plans to meet again in November or December.