



NewsLink

The leading knowledge exchange for those who design, build, use and maintain mission-critical enterprise information infrastructures, 7x24 Exchange's goal is to improve end-to-end reliability by promoting dialogue among these groups.

Directors and Officers

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Fall 2000

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Rolando Geniza, *Southern California Gas*
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Note:

7x24 Exchange Has Moved

7x24 Exchange

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www.7x24Exchange.org

Spring Conference Moves to California

End-to-End Reliability: The Business Case

May 7 - 10, The Fairmont Hotel, San Francisco CA

End-to-End Reliability: Why?

Answering this question is at the heart of 7x24 Exchange's upcoming conference. The Conference will review major techniques, technologies, accomplishments, case studies in highly reliable infrastructures and explore the rationales for these ventures. Gauging the technological risk associated with information infrastructure investments is critical to all aspects of End-to-End reliability. Why build six-, seven-, eight- or even nine-nines of reliability? How will reliability—mttf (mean time to failure) and mtrr (mean time to repair) of a given component affect overall system reliability?

From a business perspective, options for dealing with true 7x24 end-to-end reliability affect and are affected by risk assessment/management and related insurance, engineering, human organization/training and legal variables. In the real world, and especially in the increasingly important internet, on-line, dot com world, each of these variables

need to be considered as part of the organization's marketing mix—the nature of the product/service offered and the associated risk/reward. Recognized experts will discuss a number of these issues and explore how these components impact one another.

In addition to tours of several major local data/call/internet centers, the conference will include a CIO address and 7x24 case studies. There will be a *High Availability Storage* panel of industry experts moderated by Fred Moore, editor-in-chief of *Storage* and 7x24 Exchange's highest rated presenter to date (see accompanying article **Fall '99 Conference: Largest to Date**, below), that will explore the state-of-the-art and probable future direction of high availability storage.

The conference also will include presentations by thought leaders in the areas of wireless technology, law, insurance and security, several technical sessions including HVAC and Computer Room Grounding 101, a presentation of

new findings on cooling rack mounted servers, structural solutions for seismic areas and more.

Based on past successes, the conference will include a professional panel, a restructured pass-the-mike-session, as yet unnamed instant update sessions, a variety of formal and informal networking sessions/opportunities, an expanded chapter update session and much more.

Conference details and registration forms will be included in the Conference Brochure that will be distributed shortly. Conference fees will be \$900 for member company employees and \$1,200 for non-members. Fees include all conference materials, Sunday evening's reception/dinner; breakfasts, lunches and breaks on Monday, Tuesday and Wednesday; and tour transportation. For additional information, contact 7x24 Exchange or visit www.7x24Exchange.org. To take advantage of special sleeping room rates at The Fairmont, call 800-527-4727 and mention 7x24Exchange.

'99 Fall Conference: Largest to Date



Opening session

Fearless about Y2K, 274 uptime professionals attended 7x24 Exchange's '99 Fall Conference *End-to-End Reliability: The Millennium*, at The Phoenician in Scottsdale, AZ. The Conference marked the organization's 10th anniversary and honored its Founders. Reflecting this important milestone, the conference was one of the highest rated conferences to date, 5.69, (1=poor to 7=excellent).

Fred Moore's Keynote *The Future of Data Storage* received an overall 6.71, highest ever for a technical session. The vendor-sponsored event, *La Puesta del Sol*, treated attendees to an authentic Southwestern B-B-Q under desert skies and was rated 6.37. Tours of four modern facilities gave attendees a varied choice, ranging from co-generation to 7x24 telephone operations and were rated 5.54 overall.



7x24 Exchange Founders (l-r), Paul Fox, Frank Gialanella, John Jackson, Howard Levison, Dennis Cronin, Ken Brill, Alan Freedman.

"We were fortunate to have tours of Co-Generation at The Phoenician, SRP OPS Center, MicroAge Help Desk Facility and First Data Corp. Data Center. Our thanks go to those entities for allowing our attendees to share their facilities. Tours are a big part of our conferences and we couldn't do it without the support of our members," said Mike Weinstein, VP.

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Chairman's Letter

Stepping back and looking forward

Our '99 Fall Conference was a chance to step back and renew acquaintances with the visionaries who founded 7x24 Exchange in 1989. For several, it was their first time back after many years and it was intriguing to hear their comments on *how far we have come*. This was nice to hear, but it also was humbling because it reminds me of how much further we have to go. More importantly, it reminds me of how much our business has changed in the last 10 years and heightens my concern that maybe we have not changed enough.

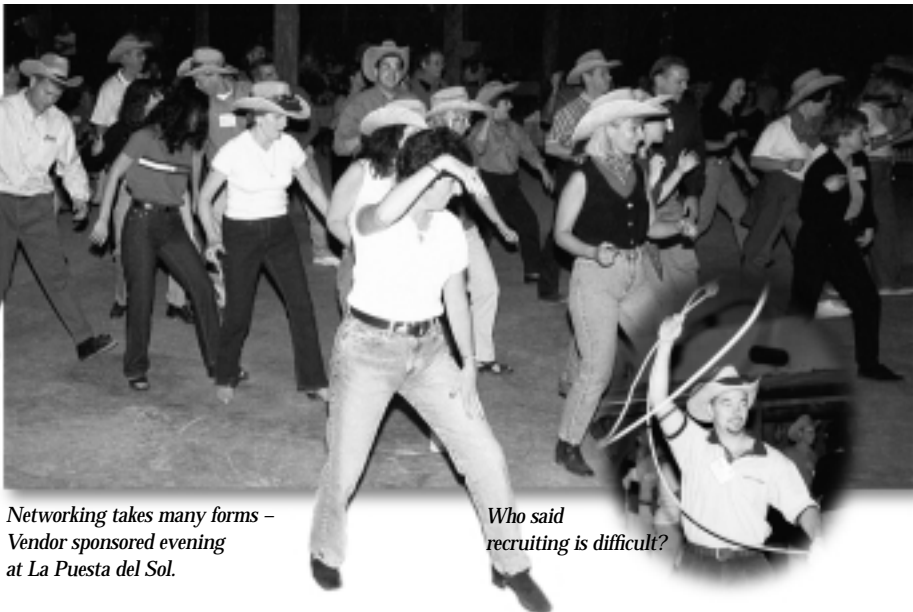
Looking back, we saw hardware and facilities as the weak link in 7x24 operations. We saw a group of professionals with tremendous technical knowledge and the ability to solve complex technical problems. We have seen many trends come and go. We have seen the pendulum swing back and forth between centralization and decentralization, insourcing and outsourcing, and more. But, as I step back, view the past 10 years and look forward, I see a consistent trend—the maturation and full integration of IT into the business and growing recognition of the importance of 7x24 end-to-end reliability. The dot.com's have highlighted the importance of technology and end-to-end reliability, but they are merely a step along the road to fully integrating technology into business, all businesses.

The creation of CIO and CTO titles is businesses' way of recognizing the significance of technology. Escalation of

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Fall '99 Conference

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Networking takes many forms – Vendor sponsored evening at La Puesta del Sol.

Who said recruiting is difficult?

Other highly rated sessions included *The FBI's NIPC Program to Secure US Facilities* (5.33), *How to Safeguard 20 Percent of NYSE Transactions* (5.31) and a well-received breakfast honoring the founders of 7x24 Exchange (6.37). Additionally, a two-part *Critical Power Panel* covered issues ranging from the *Grid and Deregulation to Onsite Technologies and Trends*.



Tours of local facilities are a critical part of 7x24 Exchange Conferences.

"Having the opportunity to share the history of the organization while honoring those who were farsighted enough to see the need for it was a thrill. Going from a small group meeting in a conference room at a brokerage firm in NYC to 274 at The Phoenician pays tribute to our founders," remarked Bob Cassiliano, chairman.

Two *Instant Update* sessions introduced peer organizations, the *Electrical Generating Systems Association (ESGA)* and the *Houston Advanced Research Center (HARC)*. Joe Paladino, executive

director, commented, "Being able to expand the dialogue with peer groups is critical to the education process. Herb Whittall, of ESGA, discussed the importance of standards setting, while Patrice (Pete) Parsons shared information on proton exchange membrane fuel cell technology, two subjects of importance to our members." As a direct result of these presentations, ESGA got eight volunteers to review prospective standards and several organizations have followed up with Pete Parsons.

Following are a sample of audience comments:

The Future of Data Storage

- Superb, probably best presentation I have seen in 10 years attending 7x24 Exchange conferences.
- Spoke of trends – not just storage
- Speaker was great! Very entertaining and definitely got point across.

The FBI's NIPC Program to Secure US Facilities

- Excellent idea, relevant to my business
- Excellent presenter, experience, knowledge came through
- Good subject related to the group

Security in the New Millennium

- Very informative and knowledgeable
- Right on target, good focus, good organization
- Excellent, relevant to new times



Professional panel member Fred Moore, flanked by Paula Wendell and Larry Wilson, responding to an audience question.

How to Safeguard 20 Percent of NYSE Transactions

- Great insight to design requirements
- Great example of how to make team approach work
- Very good – exactly what I was interested in

Special thanks to the vendor sponsors who subsidized the evening at **La Puesta del Sol**. American Power Conversion, Automated Logic Corporation, Carlson, Pillar Inc., PowerWare Inc. Reliable Power Meters, Russelectric, Inc. Sure Power Corporation, Zenith Controls Inc.



Bob Frankston delivers closing session on The IP Infrastructure.

Chairman's letter

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these positions toward Board status underscores technology's growing importance to the survival and success of any business.

As technology management has moved from computer room to Boardroom, the demand for people who can effectively manage technology and infrastructures has heightened. It is now as important to understand the direction of technology as it is to understand its operation. Articulating missions and goals is now as important as designing flow charts or calculating loads. Writing good RFP's is now as important as writing efficient code or doing preventative maintenance on a UPS module. Where does that leave 7x24 Exchange?

Clearly, we need to recognize the growing intertwining of business and 7x24 functions. As the theme of our Spring Conference, *End-to-End: The Business Case* implies, we recognize the interrelationship. However, longer-term, whom should we target? What job level? What function? What role should out-sourcers and consultants play?

Our mission is:

The leading knowledge exchange among those who design, build, use and maintain mission critical enterprise infrastructures, 7x24 Exchange's goal is to improve end-to-end reliability by promoting dialogue among these groups.

If this is correct, how can we most effectively improve end-to-end reliability? By promoting dialogue among the CIOs/CTOs who specify the platforms? Among consultants who define platform capabilities? Among the implementers who make, build and maintain these systems?

We would love to hear from you. Please give us your ideas, call, fax, write or e-mail us. If we answer these questions well, we will see you in 2000 at our 20th anniversary. If not, who knows!

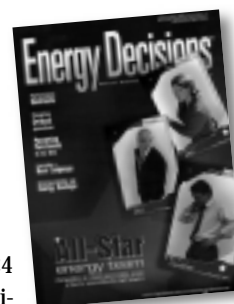
Sincerely,

Robert J. Cassiliano

7x24 Exchange Articles

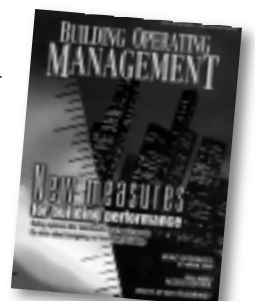
Deregulation: A mission critical 7x24 Information Infrastructure View

7x24 Exchange President Dave Sjogren's article: *Deregulation: A mission critical 7x24 Information Infrastructure view*, appears in the September issue of *Energy Decisions* magazine. In it, Dave discusses the implications and potential impact of electric utility deregulation on 7x24 operations and facilities professionals responsible for these operations, as well as what they can do to prepare for the change. To obtain a copy of this article, contact *Energy Decisions* magazine at www.facilitiesnet.com



7x24 – From the Ground UP

For the third consecutive year, *Building Operating Management Magazine (BOM)* and 7x24 Exchange collaborated on a special insert in BOM dealing with key issues in mission critical 7x24 facilities. This year's 12 page insert *7x24 – From the Ground Up*, appears in BOM's March 2000 issue. The main article provides an overview of the growing demand for mission critical 7x24 facilities. Using two 7x24 Exchange member companies—NASDAQ and State Street Corp.—construction projects as case studies the article outlines some of the major issues, steps, terms and concerns involved in designing, building and operating a major 7x24 facility. Copies of the magazine will be mailed to 7x24 Exchange member company designees and small quantities will be shipped to 7x24 Exchange chapters. If you would like a copy of the issue, contact your local chapter of 7x24 Exchange National.



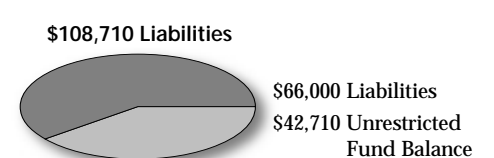
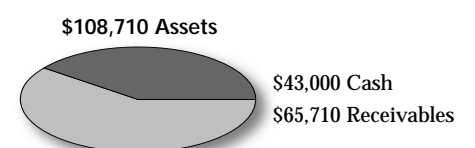
7x24 Exchange Financial Update

Support, in the form of membership renewal, prompt payment of conference fees and vendor firms underwriting conference events, has been historically strong. To facilitate member payments, Discover Card is also now accepted. Use of credit cards speeds the collection of receivables and often provides card users with additional documentation. Timely payments are encouraged and appreciated.

At February 29, 2000 Assets were \$108,710 – cash (\$43,000) and Accounts Receivable (\$65,710); Liabilities were \$66,000 leaving an unrestricted fund balance of \$42,710.

The Fall 1999 conference costs, exclusive of the vendor sponsored event, totaled \$169,966. The cost mix was consistent with prior conferences. Nine

vendors supported the evening at *La Puesta del Sol*. Costs exceeded estimates as a result of the large and welcomed guest attendance. The newly introduced website (www.7x24Exchange.org) will enable cost effective information dissemination and provide entrée to reach new members.



Chapters Update

Atlanta Chapter

An approaching winter storm forced postponement of the chapter meeting January 28 until Friday, March 17. The meeting program included presentations on *Parallel vs. Isolated UPS Systems* and *Lightning in Georgia* and will include a tour of Georgia Power's Transmission Control and Storm Centers.

Future meetings are scheduled July 28 and September 29 (tentative). Exciting programs including an encore presentation on *The Future of Data Storage* by Fred Moore of Horison Information Strategies, and a tour of AT&T's recent generator and UPS upgrade projects are planned. Fred's presentation will be similar to the tremendous presentation he shared with us at the National Conference last November in Scottsdale.

Work is underway on 2001 meetings. Anyone interested in hosting a meeting or presenting at one, is encouraged to contact us.

To receive future chapter information directly, please forward your e-mail address to Kevin Fannin.

Having recently achieved chapter status, the group has offering assistance to those trying to organize chapters in their area.

Bay Area

Look for an announcement in the *7x24 Exchange Spring Conference Brochure* for details on an effort to reinvigorate the Bay Area Chapter. Interested parties should plan to attend the Sunday afternoon session.

Chapter Contacts

Eric Adrian, *Bank of America*
415 436-1975

Bill Mazzetti, *Mazzetti & Associates*
415 362-3266

Boston Candidate Chapter

Chapter organizers are planning a meeting during the second quarter of 2000. Interested parties should e-mail Gary Murphy at grmurphy@carlson-dc.com

Mid-Atlantic Chapter

Inclement weather forced the cancellation of its Winter meeting and a rescheduled date will be announced shortly.

Membership continues to grow thanks to the efforts of chapter members. Recruitment of associates, clients and friends has broadened the dialogue and introduced new ideas and solutions. Anyone interested in receiving Chapter information should contact Yvette Brooks (ybrooks@edg-inc.com)

Midwest Chapter

The Spring 2000 Conference is scheduled for Friday, April 14, at Harrah's Casino Hotel, Kansas City, MO. It will feature a networking breakfast, *Water Treatment for the 21st Century* by David Egli of Betz Entec, Inc., *Monitoring Your Power* by Michael Daish of Reliable Power Meters, *Controls* by Gary Short and a session on *Pumps*. Discounted room rates at Harrah's are available for early registrants. A pre-conference dinner will be held April 13 at the hotel. Check www.mindconnection.com/7x24 for details and registration form.

The Fall 2000 conference *2001, a Grounding Odyssey* will feature four speakers and a panel. Mike Holt covering *Grounding and Codes*, Scan-Tek's John Woska discussing *Infrared and Uptime*,

Ron Lomax of Square D doing a session on *Transient Voltage Surge Suppression* and Lee Snyder presenting *Grounding Measurements*. A professional panel, featuring Ron Lomax, Lee Snyder and Ed Rafter follows the presentations giving attendees an opportunity to further explore what was covered as well as introduce new topics. The date's set for October 20, at Harrah's Casino Hotel.

The Fall 1999 conference was a success. Keynote speaker Dr. Jean-Pierre Wolff, fresh from an IEEE presentation, addressed the group on electrical maintenance. Renowned in the electric business, Jean-Pierre received excellent evaluations for a lively and enlightening session. Back by popular demand, Jerry Borland discussed electric utilities and their impact on 7x24 operations. Steve Baker, a security expert, did a well-received presentation on Security. An interactive Power Quality Panel answered questions from the audience. The officers took the opportunity to bid farewell and thank Peggy Rafter for years of support and hard work. Peggy is moving on to other exciting ventures and will be missed.

Two officer positions are filled on an interim basis, Database Officer and Editor. Members wishing to nominate someone should contact Lanny Bennefeld Jr. or Donald Riley.

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General Officer, Mike McCurley
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Database Officer (interim), Edward Raft,

New York Metro Candidate Chapter

Ten individuals met at a second organizational meeting February 7, 2000, in Morristown, NJ, agreeing to hold half-day quarterly sessions at a host facility. Sessions will start with a tour followed by networking time and presentations. Technical newsletters reviewing topics covered will be distributed following each meeting.

The next meeting, *Growth of the Internet and How to Manage It*, is set for the morning of April 5 at the Regional Business Partnership Office, Newark, NJ. The program will feature a speaker from America Online and a Bell Atlantic program on telecommunications. User members are admitted free, vendors/consultants pay \$25 per person. Those interested should contact Bob Bazewicz at cdnmall@earthlink.net, 973 539-5243, or Dave Sjogren at SFIDave1@aol.com.

Northwest Chapter – Seattle, WA

February brought the election of two new Board members, Douglas Bors, president and Ron Hookland, vice president. They will serve for the next two years with reelected treasurer, Leonard Ruff and secretary, Rob Costa. Thanks to the former Board members Kim Holyoak and Christopher Haubeil for their support.

In addition to Board elections, the Winter meeting featured Douglas Bors, PE, vice president technology, consulting and research, Sparling, Inc. discussing PRA (Probability Reliability Analysis) in action. Doug demonstrated use of the IEEE Gold Book PRA to add value to the data center design process. Look for more of Doug's insights at an upcoming *7x24 Exchange* National Conference.

The Fall '99 meeting featured Mark Reisinger of Computer Power and Service, Inc. covering a broad range of issues in *UPS Maintenance – Path to True Availability*. Mark emphasized that the path of true availability goes beyond physical maintenance and encompasses operational considerations, procedural strategies, and training programs. For more information, or to reach Mark by e-mail, visit www.7x24nw.org.

Officers and Contacts

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Vice President, Ron Hookland,
Boeing 206 865-6099

Secretary and Newsletter, Leonard Ruff
Callison Architecture 206 623-4646

Treasurer, Rob Costa
Boeing ISS 425 865-2187

Membership, Chuck Meyer
Aubeta Technology 206-766-8800

Programs, Jon Ridgeway 206 643-0212

Ohio Chapter

The Chapter's '99 Spring Conference was held Friday, March 24 at the LEXIS-NEXIS Data Center in Miamisburg, Ohio. The event included networking, discussion, speakers and a tour of the new state-of-the-art LEXIS-NEXIS Command Center. Its theme, *True 7x24 Operation with the latest technologies & concepts*, was addressed by Keynote speaker Michael Mosman, PE and vice president of CCG Facilities Integration, based in Baltimore, MD. Mike is responsible for some of the world's most critical business sites, including America Online and Abovenet.com.

A panel discussion on Utility Deregulation addressed many of the audiences questions and concerns about its impact on mission critical facilities. The half-day event featured breakfast, lunch and great opportunity for networking.

Officers and Contacts

President, Stephanie Strack
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Vice President, Harold Perdue
Proctor & Gamble, 513 983-8295

Treasurer, Martha Rollins-Soder
Nalco Chemical, 800 527-2068 ex6863

Membership, Mark Neiheisel
Uptime Solutions, 937 237-3400

Newsletter, Brad Deaton
Engineering Dynamics, 513 459-8333

Southern California

The Chapter website has grown and features an *Active Message Board* where visitors can ask or answer questions or comment on mission critical issues. Participation in this dialogue is encouraged. Technical papers are available on-line, including a *quiz* by George Kamburoff, noted National Conference speaker. The first correct answer wins a prize.

Chapter Officers are evaluating sites for an upcoming meeting. The chapter's diverse geographic area affords many facility tour options. Finalized plans will be posted chapter web site www.7x24exchangesocal.org. Anyone interested in hosting a session contact Pat Donnelly or Don Pirch.

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donneri@mail.northgrum.com

Web Site, John Sears,
Liebert Corporation
949 457 3720, john_sears@liebert.com

Organizing Efforts

Local issues, open dialogue and information exchange are the tenets of *7x24 Exchange's* chapter network. Hard work and thankless efforts by the chapter officers, the generosity of host facilities and speakers are how it is done. Following is a list of volunteers who are working to create new chapters. They need your help. Anyone from the areas listed wishing to be involved should contact the person from their area.

Local Contacts

Arizona: John Blevins
SRP, 602 236-5464

Canada: James Kenned
On Power
jkennedy@onpower.com, 905 881-6644

Florida: Trevor Serebro
Reliable Power Meters
trevor@reliablemeters.com, 407 812-4746

Those from other areas wishing to explore chapter formation should visit our web site or contact Joe Paladino (see masthead).

7x24 Exchange '99 Fall Conference Attendees

ACE - USA
Charles Cocoran
Aetna Inc.
Wade Godin
Air Canada
Eric Dandy
Alicomp
Arthur Kurek
Amdahl Corp
Terry Smith

Axiom Group
Joseph Paladino
Francis Teracino
Ballard Generation Systems
Colleen Coyle Mathis
Bell Atlantic
Allen Wood
Bell Canada
Robert Hughes

Charles Schwab
Ellis Milano
Stephen Mathis
Chase Manhattan Bank
Paul Fox
Chick-fil-A
Kevin Fannin
Clark Construction
Stephen Altizer

Clark Engineers, Inc
Bruce Huber

Compel
Thomas Cylkowski
Robert Palmer

Consolidated Engineering Services
Phyllis Fordham
David Jester
Dennis Mulgrew
Control Solutions Ltd LLC
Rich Housh
Robert Trask

Excellent, one of your best

Convergys
Michael Svoboda

CS Technology
William Angle

Cushman & Wakefield
Edward Poppe

Cyberex
Maureen Austin

Milind Bhanoo
James Galm

Kyle Johnson
Anthony J. Pinkey

Terry Sholin
Teresa Sommers

Rex Withers
Datatrac

Michael Bonnain
K.C. Forward

Deluxe Corporation
James Peters

James McAlister
Frank Reck

Depository Trust Company
Donald Donahue

Stephen Wint

Deutsche Bank
Sudhir Kalra
DPR Construction
David Buckel
Jimmy Hook, Jr
Patrick Scott
Dranetz/BMI
Ross Ignall
Jerry Olechiv

DST Systems
Russell Fotovich
Phil Hon
DVL, Inc
Russ Mykytyn

E5 Group
Darrell Henigman
Eli Yitzhaky
Einhorn Yaffee Prescott
Richard S. Einhorn
Peter Gross, P.E.
Joseph Mangan PE
Kevin J. McCarthy
Nicholas Yalich

EGSA

Herbert Whittall

Ellerbe Becket

Jeff Becker

David Conner

Gregory DiPaolo AIA

Timothy Dueck

Geoffrey Glueckstein

Thomas Storrs

Allan J. Wenzel

Engineering Design Group

Thomas de Vries PE

Shadi Makarechi

Richard N. McWilliams

Shariar Zaimi

Enviroguard

Erik Jones

EPRI PEAC Inc

Thomas Key

Facilities Engineering Assoc

Richard DiLullo PE

William Flaherty

Facilities Mgmt Consultants

Howard Levison

Facility Support
R. Nelson Dawson

Fannie Mae
Rick Heckhaus
David King
Derrick Millard
Armando Torres

FBI
Paula J. Wendell

Federal Reserve Bank of NY
Ravi Mehrotra

Federal Reserve Board
Raymond Romero

Fidelity Investments
Peter J. Manzoni

Wayne Murphy
Robert L. Talbot

Victor J. Quijano
First Data Corp

Bruce Penman
First Data/Western Union

John Oyhagaray
GE - Industrial Systems

Dennis Heath
Kevin Prior

David West
Gilbane

Jack Clift
William Choquette

John Keegan, PE
Global Crossings

Steve Humphreys
William McCauley

Goldman Sachs & Co
Robert Baur

Ken Muller
David Schirmacher

H.F. Lenz Co
Robert Block

Richard Madzar
Holder Construction

Michael Kenig
Richard Morgan

Tony TeVault
Horison Info Strategies

Fred Moore
Houston Adv Research Ctr

Patrice Parsons
IBM Corporation

Thomas Enger
Robert Sullivan

Independent Consultant
Robert Frankston

Inglett & Stubbs
Richard Phillips
Anthony Sinyard

Integrated Support Sys
Larry Pellerito

Intel
Martin Sedler

ISM/IBM
Alden Foraie

Eric Johnson
Ivey Mechanical

Frank Matthews

Great fun - great atmosphere

Johnson Controls Inc
Wendell Chafin

Scott Jennings
Kajima Construction Svcs

Michael Dempsey
Peter McCabe

John Sinayi III
Peter Ruffini

Kamburoff Associates
George Kamburoff

Kling Lindquist
Thomas Reed PE

Lampertz North America
Jerry Lyons

Liebert
Bradford Brindley

Frank Gialanella
Thomas Gruzs

David Kelley
Michael Lasky

Robert Miller
Gary Milton

John Sears
Richard Walden

Lockheed Martin
George Walton

Mazzetti & Assoc.
William Mazzetti Jr

Ron Wilson
McKinstry Co

Dan Caldwell
MGE UPS Systems

Kameel Androws
Kevin Burke

David Derambakhsh
Rick Drmek

Brett Korn
Micheal O'Brien

Raymond Prince

MicroAge Teleservices
Melissa Farace

Monsen Engineering
Eric Monsen

Mtechnology
Stephen Fairfax

NetBrowser Comm. Inc
Jonathan Buckley

Paine Webber
Dennis Cronin

PDI
Richard Combs

David Mulholland
Gregory Zawojski

Piller Inc
Gary Rackow

Bradley Walter
Power Concepts LLC

John Meziar PE

Power Maintenance Int
James Dodson

Power Mgmt Concepts
Peter Curtis

Power Paragon Inc
Saeed Mahramnia

Charles Sparks
Power Switching & Conv

Bruce Brady
PowerWare Corporation

Jeffrey Cunningham
Douglas Dethmers

Danny Edelen
Darrick Finan

Donald Luckman
John McQuillin

John Mock
Barry Needle

Frank Spruill
Marty Stefanski

Kevin Welch
Daniel Young

Utyme Associates
John Jackson

Venator Group Inc
Paul Stewart

VISA
David McDonald

WORLDSpan
James Lowry

Zenith Controls
Thomas Duffy

David Leslie

Proctor Power Systems
Steven Collins

Progressive Casualty Ins
Terry Crissinger

Greg Dolence
Reliable Power Meters

Paul Bradlyn
Trevor Serebro

Russelectric
Dennis Don

Richard Doyle
Henry Lengefeld

John Meuleman
George Whittaker

Sabre Inc
James Stamper

Salomon Smith Barney
Daniel Gargano

John Glass
Vincent Raniolo

Thomas Weingarten
SASCO Electric

Brian Campbell
SBC

Michael Lammert
Sparling Inc

Douglas Bors PE
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