

DCD QUALITY CONNECTIONS



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Vision: *To be the World's recognized champion and leading authority on all issues related to quality in realizing and maintaining the built environment by the design and construction community and its customers.*

Mission: *The Design and Construction Division shall advance individual performance excellence worldwide by providing opportunities to members for learning, quality improvement, and knowledge exchange*

MESSAGE FROM THE CHAIR

Greetings, all Designers and Constructors, and welcome to the March 2009 edition of the ASQ newsletter for the Design and Construction.

This issue is chock-full of articles and information reporting on our profession. Including-

- World Conference DCD Events - <http://www.asq.org/conferences/quality-in-sustainability/index.html>
- DCD's Future City Award - <http://www.futurecity.org/>
- Garage Collapse Law Suit - <http://www.tmcnet.com/submit/2009/01/26/3940283.htm>
- Networking on LinkedIn.com - <http://www.linkedin.com/groups?gid=768057>
- 100 Year Concrete mixes - <http://www.icrete.com/> and
- National Housing Quality Award - <http://www.housingzone.com/probuilder/subcommunity/46190/27610.html>

Make sure you attend our **Conference within a Conference** at the **ASQ WCQI** in Minneapolis (May 18th to 20th). Keep a lookout for future emails on booth information, hospitality suite times, and member/board meeting schedule. (also sign up to as many of our sponsored sessions as possible, listed on page 5),

In addition to the WCQI, this year we're also supporting a number of professional conferences

-The **AIA National in San Francisco** (sign up for DCD board member, John Broomfield's workshop at <http://www.aiaconvention.com/live/61/program/W34>)

-The AIA Practice Management Knowledge Community **Changing Times | Time for Change** Conference in Chicago (Sept 24 to 26) – download conference and presentation submittal information here - <http://www.aia.org/practicing/AIAB025048> (ASQ members are invited to attend)

We're also rolling out the next phase of our **Construction Quality Manager Certification** process in conjunction with the Audit Division Fall Conference in Tucson in October (15th to 18th) See available information here - <http://www.asq.org/audit/conferences/index.html>

This is **your** division, it runs on volunteers, and all of these efforts need more volunteers. Offering to **assist in any way possible** may get you a **free registration** to the event, **offering more can get a seat on the board or chair of a committee**. But more importantly, your involvement helps shape the division to the benefit of its membership.

Additionally, our division's new book- ISO 9001:2008 Interpretive Guide for the Design and Construction Project Team has just been published by Quality Press. It is now available for download at <http://qualitypress.asq.org/perl/catalog.cgi?item=E1364>

In addition to team guidelines, the book also includes the full text of ISO 9001:2008. At \$36 for individual member download, it is valuable quality commodity in these troubled times

Cliff

Cliff Moser, AIA, MSQA, LEED® AP

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2009 World Conference on Quality and Improvement

This year's World Conference will be held on May 18-20, at the Minneapolis Convention Center. The DCD and the Energy & Environmental Division will co-sponsor a "conference within a conference", as described below and on the next page.

The DCD Annual Meeting will be held at 6:00 PM on Monday May 18th at a location to be determined. DCD will have a booth in the exhibit area. Stop by Booth # 850 to meet members of the Division Council and learn where the Annual Meeting will be held. Refreshments will be available at the meeting.

Balancing Quality and Sustainability in Design and Construction

This year, the DCD conference will be a "Conference within a Conference" held in conjunction with the **2009 World Conference on Quality and Improvement (WCQI)** in Minneapolis on May 18th to the 20th. The theme will be *Quality in Sustainability*, and will define sustainability in clear and measurable terms, describing its diversity in all aspects of society, and identifying opportunities for quality professionals to plan and implement quality in sustainable strategies and development.

Conference attendees will leave with a better understanding of:

- What sustainability encompasses
- The scope and breadth of sustainability and sustainable activities
- The role of the quality professional in sustainable development
- Sustainability as a key driver for designing and constructing the built environment
- Sustainable best practices for integration into energy and environmental decision making

Attendees can also attend all of the WCQI sessions, keynotes, and visit the expo floor.—greatly expanding the opportunity to learn from other industries.

Visit the site at: <http://www.asq.org/conferences/quality-in-sustainability/index.html>

2009 Quality in Sustainability Conference

With over twenty sessions, you can tailor a schedule to fit your professional needs. (listed below are some of the sessions available (see website for up to date scheduling)

May 18	10:30 am - 11:30 am	<u>QS01. Sustainable Quality in Design and Construction</u>
May 18	10:30 am - 11:30 am	<u>QS02. Achieving Quality and sustainability in Emerging Clean and Renewable Energy initiatives</u>
May 18	10:30 am - 11:30 am	<u>QS03. Keeping a Quality Focus in Emerging Challenges</u>
May 18	10:30 am - 11:30 am	<u>QS04. Best Practices For Quality in Design and Construction: How Quality Made a Difference</u>
May 18	3:00pm - 5:00pm	<u>QSW01. Explaining Sustainability</u>
May 18	3:00pm - 5:00pm	<u>QSW02. Integrated Quality and Environmental Management Systems: New Techniques and Approaches</u>
May 18	3:00pm - 5:00pm	<u>QSW03. Using the ISO Greenhouse Gases Standards: An Overview for Quality Professionals</u>
May 18	3:00pm - 5:00pm	<u>QSW04. Management of Change to the Design of a Complex Facility</u>
May 19	11:0 am - Noon	<u>QS05. New Competencies for Quality Professionals for Sustainability</u>
May 19	11:0 am - Noon	<u>QS06. Quality in the Re-emergence of Nuclear Power Generation – Opportunities for the Quality Professional</u>
May 19	11:0 am - Noon	<u>QS07. Emerging Initiatives: ISO Energy Management Standard</u>
May 19	11:0 am - Noon	<u>QS08. Culture of Sustainable Quality: Serving Customers, Organizations and Communities</u>
May 19	1:00pm - 5:00pm	<u>QSW05. Building a Quality Management Program Around the Leadership in Energy and Environmental Design Rating Systems</u>
May 19	1:00pm - 5:00pm	<u>QSW06. ECS: Developing and Communicating the Economic Cost of Sustainability</u>
May 19	1:00pm - 5:00pm	<u>QSW07. Process-Based Management Systems for Sustainability-Focused Practice</u>
May 19	1:00pm - 5:00pm	<u>QSW08. Achieving Sustainability in Environmental Remediation</u>
May 20	8:00am - 10:30am	<u>QSW09. Building Information Modeling (BIM): Value-Added Tools for Green Design and Construction</u>
May 20	8:00am - 10:30am	<u>QSW10. AIA Integrated Project Delivery Model</u>
May 20	8:00am - 10:30am	<u>QSW11. Creating a Sustainable Infrastructure Through Energy Savings Performance Contracting</u>
May 20	8:00am - 10:30am	<u>QSW12. Standards Versus Recommended Practices: Separating Process and Prescriptive</u>

Design and Construction Division Supports Future City:

The National Engineers Week Future City™ Competition is to provide engineering based academic competition to all seventh- and eighth-grade students. The National Engineers Week Future City™ Competition is for seventh- and eighth-grade students, fostering an interest in math, science, and engineering through hands-on, real world applications. The competition is open to all public, private, and parochial schools in selected areas.

The mission of the National Engineers Week Future City™ Competition is to provide a fun and exciting educational engineering program for seventh and eighth grade students that combine a stimulating engineering challenge with a “hands-on” application to present their vision of a city of the future.

This year's national competition was held in Washington, D.C. from February 16-18th, 2009 as part of the National Engineer Week.

The DCD sponsors an award to the team (school) for Best Use of Innovative Construction Materials and Techniques.

Bases for Selection:

Use of innovative construction materials

Use of innovative construction techniques

Overall construction of design

DCD Judges:

Ray Crawford & Catherine Hader, conducted the judging

Winner: Carleton W. Washburne School,
from Winnetka, Illinois,.



ASQ Supports Engineering Week with Free “Real World of Engineering” Webinar:

DCD Board Member, Chuck Kanapicki, PE, co-hosted an Engineering Week "Real World of Engineering" Webinar for Kids and Parents. Congratulations Chuck! Visit the site here-

<http://www.asq.org/education/why-quality/real-world-of-engineering.html>

First Garage-Collapse Suit Blasts Six Subcontractors

By Thomas F. Armistead 01/30/2009

Six subcontractors have been sued by the developer of a six-story parking garage in Jacksonville, Fla., that collapsed in December 2007, killing one worker and injuring 23 others. Atlanta-based developer Berkman Plaza 2 LLC filed the suit Jan. 12 in circuit court in Duval County, Fla., seeking damages "well in excess of" \$36 million and demanding a jury trial.

Two-thirds of Berkman Plaza 2 garage collapsed as the sixth floor slab was being poured.

Named as defendants in the suit are Southern Pan Services, Co., Davie, Fla.; Universal Engineering Sciences Inc., Orlando, Fla.; Infinity Reinforcing Inc., Palm Coast, Fla.; P.T.E. Strand Co. Inc., Hialeah, Fla.; A.A. Pittman & Son Concrete Co., Mandarin, Fla., and Harsco Corp. d/b/a Patent Construction Systems, Paramus, N.J. Choate Construction Co., Atlanta, is the general contractor and is named in the suit, but not sued because its contract with Berkman Plaza 2 requires conflict resolution via mediation and arbitration.

The lawsuit's 21 "general allegations" include improper execution of work, failing to supervise the work, employing unfit persons, improper loading, improper shoring and reshoring, improperly permitting cold joints, improper concrete placement and placing concrete of insufficient strength, among other things.

The 413-car garage was part of a \$40-million project that included a 23-story tower with 222 residential units. It collapsed on Dec. 6, 2007, during an early-morning concrete pour of the sixth-floor slab.

In June, the Occupational Safety and Health Administration proposed penalties totaling \$192,800 against Choate, Southern Pan Services and A.A. Pittman. OSHA assessed three violations against Choate, including one willful violation carrying a penalty of \$49,500, and four violations against Southern Pan, including two willful violations with \$125,000 total penalties. To date, Pittman has settled for two other-than-serious violations totaling \$3,600 in penalties. Choate and Southern Pan are contesting their alleged violations, says an OSHA spokesman.

Forensic engineers have studied the failure and submitted reports, but the reports have not been made public. One source, who requests anonymity because he is not authorized to speak to the press, says that voids were discovered in the third-floor concrete when the forms were stripped, and that the voids were caused by improperly sized aggregate blocking the flow of concrete.

Construction has not been resumed on the project. In June, "the owner issued a notice of termination, which we are disputing," says Sean Allen, Choate's general counsel. The family of Willie Edwards III, the laborer and Pittman employee who was killed, have not yet filed any suits. "We're talking to the insurance companies for the subs and the general," says Craig Gibbs, the family's Jacksonville-based attorney. Berkman's suit against the subs is the first civil action arising from the case.

Officials and lawyers for the subcontractors whom ENR was able to reach all say the suit against them is without merit. "We were just a material supplier on this job," says Sergio A. Dalmau, vice president of P.T.E. Strand. His company provided post-tension materials, according to the complaint. "Our role on the project was labor only to install rebar as directed," says Timothy McLean, president of Infinity Reinforcing. Universal Engineering is Southern Pan's sub for inspection of shoring and reshoring, "internal QC for Southern Pan," says Mark Israel, Universal Engineering's president. He says the lawsuit's complaints against all the subcontractors together is "just a shotgun approach," an attempt by Berkman Plaza 2 to blame someone else.

But ENR was unable to obtain comments from subs more directly responsible for concrete forming, placement and shoring. Citing corporate policy, Ken Julian, spokesman for Harsco Corp., declined to comment on active litigation. Harsco's Patent Construction Systems is responsible for "design and all required materials for all shoring and re-shoring," according to the complaint. Neither A.A. Pittman nor Southern Pan Services responded to multiple attempts by ENR to reach them. Pittman is the concrete subcontractor and Southern Pan is the forming sub.

Philip Beck, Berkman's lawyer, says, "It is our belief, based on what we know at this time, that each of the defendants had some responsibility that contributed to the failure or we would not have named them that way."

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Networking on LinkedIn

By Greg Wennerstrom

The DCD mission is to provide networking and knowledge exchange opportunities for our members. Our annual conferences, the newsletter and ASQ discussion board have been the means of achieving this mission. To extend knowledge sharing opportunities many ASQ divisions, including the DCD, have started using a networking and group building tool called LinkedIn. This allows us to share information at any time, reconnect with lost contacts and make new ones.

LinkedIn is a free web service to facilitate business and group networking. As of February 2009 more than 35 million registered business professionals in 170 countries have signed up. Registration with LinkedIn allows each member to establish a profile and post as much information about themselves and professional background as they prefer. After registering for an account members can network with each other through trusted connections or specific interest groups such as the [ASQ Design and Construction Division](#).

Many of our DCD colleagues have joined the DCD LinkedIn Group and have given us feedback on its value. We hope that you will be able to use it to increase your own professional network and help us create a more visible presence for design and construction quality professionals and our division. Membership in ASQ or the DCD is not a prerequisite to join the DCD LinkedIn group so you are welcome to invite your professional contacts to join.

The registration process takes less than 5 minutes to complete and opens the door to interacting with other quality and construction professionals. To understand the value this brings to our members, it is worthwhile to first review some of the features of LinkedIn.

How Does LinkedIn Work?

Each LinkedIn member sets up a profile when registering. Your profile includes your name, email address, country, zip/postal code, industry (most DCD members are in the construction industry), company name and position. Before registering, decide if you want to use your company email, or a personal email address such as gmail.com or yahoo.com etc. LinkedIn's privacy policy prohibits the sale of email addresses.

LinkedIn members have the opportunity to setup a network of "trusted" connections. Each connection has their own connections, and so on. For example, if you have a network of 10 connections that you personally know and trust, and each has a network of 10 connections, you now have access to 100 individuals. If you have specific information needs or require help with a specific topic, you can use the search feature of LinkedIn to see if you can find anyone through your network of connections. If you find

someone you wish to contact, you submit a request to connect directly or ask a mutual connection to make an introduction.

DCD Benefits of Using LinkedIn

- Quickly and easily find other DCD members with similar backgrounds and needs
- Share news information, discussion items and events
- Use applications such as Slideshare to allow others to view your professional and business presentations
- Search the entire LinkedIn community, or limit your search to *only* your fellow DCD Group members. Select your city and/or state, to find other professionals in your area
- By indicating you are open to "Requests for information or expertise", you and your fellow members will create an environment for knowledge sharing and networking

LinkedIn Registration

LinkedIn offers free personal accounts with several features, including the ability to:

1. Build and maintain a large trusted professional network.
2. Find and reconnect with colleagues.
3. Request and provide recommendations.
4. Create a professional presence on the web.
5. Request up to 5 Introductions at a time.
6. Search for and view profiles of other LinkedIn users.
7. Receive Unlimited InMails.
8. View 100 results per search.

Click on this [LinkedIn registration link](#) to join now and you will see the screen below. On the sign-up page, input your personal details and current employment status and click Join LinkedIn. Select how you want to use LinkedIn from among the options. Check any boxes that apply to you and click Save Settings

LinkedIn: Join LinkedIn - Microsoft Internet Explorer

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Address <https://www.linkedin.com/secure/register> Go

LinkedIn ® Already a LinkedIn user? [Sign in.](#) Language

To join LinkedIn, sign up below... it's free!

* First Name:

* Last Name:

* Email: We don't spam

* Password: 6 or more characters

* Country:

* Postal Code: Only your region will be public, not your postal code

I am currently:

* Company:

* Title:

* Industry: Choose the industry that best describes your primary expertise

By clicking the button above, you are indicating that you have read, understood, and agree to LinkedIn's [User Agreement](#) and [Privacy Policy](#).

LinkedIn helps you...

Re-connect
Connect and stay in touch with colleagues, classmates, & clients.

Power your career
Discover **inside connections** when you're looking for a job or new business opportunity.

Get Answers
Your network is full of industry experts willing to **share advice**. Have a question? Just ask.

start 2009_Mar_DC... Windows Task... Inbox - Micro... Fw: Load Flow... Fw: West LRT... LinkedIn: Join ... 11:49 AM

Packing in Particles Yields 100-Year Concrete Mixes

By Tudor Van Hampton, with Debra Wood 02/04/2009

Speaking like someone who has run a construction operation before, Juan Carlos Terroba complains about how wasteful and time-consuming a project can be. "Look at how much concrete is tested," says the former Mexico-based concrete producer. "It's ridiculous. It goes way beyond your normal quality-control standards."

Batch process & fits more aggregate into voids for a 'fluffier' long-life mix.

Terroba recently left his family's large, ready-mix business, Productos Cement-eros Mexicanos, to head up iCrete, a private-equity-financed technology company that opened its doors in 2007. Located in the most unlikely of places, inside ritzy Beverly Hills, Calif., iCrete is gaining star status for its lean-and-green performance on commercial buildings.

It also promises to work well in the infrastructure space, sources say. Like some of the start-ups new to the materials scene, iCrete is not a specific product but rather a process. It was conceived by two scientists in the 1990s, when computer technology and processing power were becoming fast and cheap. By employing complex algorithms, it encourages designers to use performance-based specifications, a growing tool for U.S. infrastructure.

According to the company, the formula helps people working with high-performance concrete get the most bang for their buck. For this reason, iCrete is gaining traction in worldwide commercial construction, most recently at the Freedom Tower in New York City. Even Frank Gehry, who is using iCrete on one of his high-rise projects in New York, is a fan. The firm's aim is to make concrete more consistent from batch plant to job-site. "Our base technology is a mix design," says Terroba. "We have imagined a different way of optimizing particle-packing."

Void control is essential to quality concrete, experts say. Steve Kosmatka, vice president of research and technical services for Skokie, Ill.-based Portland Cement Association, likens the iCrete concept to Starbucks. "They sell coffee, and they turn it into something that people will pay \$5 for. It's the genius of taking the simple and making it really work. It's good technology, good science."

In some cases, iCrete's formula, which is licensed to producers, can yield a high-compressive strength mix that contains 40% less cement and requires no special additives. Though it has initially gained momentum in the commercial-building sector, Terroba envisions iCrete in roads, bridges and structures that must be built to last.

"Over the next few years, the construction that will be taking place in the world will mostly be infrastructure," he says. "I see the majority of our revenue coming from infrastructure projects." Long life is key, he adds, noting that iCrete can yield a 100-year design in a mix that is often cheaper to produce and pour. "We've achieved more than \$50 savings for a cubic yard of concrete of more than 14,000-psi compressive-strength resistance," Terroba says. "The more sophisticated the concrete, the more our savings."

Though they rave about its quality for high-strength mixes, users warn iCrete is less forgiving in lower strengths. "I love it, and think it has a home in the industry, but you have to educate the drivers and mixers differently," says Billy Kell, chief estimator for Sorbara Construction, Lynbrook, N.Y. Finishers also are still getting used to its texture. "You have to work with it differently" he says.

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The National Housing Quality Award: A First Step for Home Builders on the Road to The Malcolm Baldrige National Quality Award

By Denis Leonard

The Malcolm Baldrige National Quality Award (MBNQA) Criteria for Performance Excellence has certainly been successful since it was established in 1987. The Baldrige model provides a non-prescriptive conceptual model of performance excellence, which can articulate many of the basic precepts of quality in a systems theory approach. In this manner the criteria can present and highlight such crucial issues as the:

- Importance of leadership
- Need to consider all elements of an organization
- Strategic importance of scanning and analyzing the business environment
- Value of creating focus on customers and employees
- Emphasis of identifying and monitoring key performance indicators and
- Methods of approach and deployment for improvement action plans

The Baldrige Criteria is based on seven categories:

1. Leadership
2. Strategic Planning
3. Customer and Market Focus
4. Measurement, Analysis and Knowledge Management
5. Workforce focus
6. Process Management
7. Results

These are underpinned by core values and concepts:

1. Visionary Leadership
2. Customer Driven Excellence
3. Organizational and Personal Learning
4. Valuing Workforce Members and Partners
5. Agility
6. Focus on the Future
7. Managing for Innovation
8. Management by Fact
9. Social Responsibility
10. Focus on Results and Creating Value
11. Systems Perspective

The MBNQA and its values and concepts have been the inspiration for the creation of 43 state award organizations and nearly 45 quality award programs internationally. A great example of its success and adoption is the National Housing Quality Award (NHQA).

The National Housing Quality Award

The NHQA is modeled after the Malcolm Baldrige National Quality Award and represents the housing industry's highest recognition for achievements in quality management. It is organized by Professional Builder Magazine. For 16 years the NHQA Criteria for Performance Excellence has been an important tool for hundreds of home builders and trade contractors to assess and improve performance on critical factors to business success. These help to:

- Align resources
- Improve communication
- Increase productivity
- Boost effectiveness
- Achieve strategic goals

Since the start of the NHQA in 1993 through 2009, 67 builders have received recognition, of which 8 builders have earned awards multiple times. These organizations range from small family owned to large national builders, building custom, production, single and multi-family homes of a wide price range. In addition 6 remodelers and 5 trade partners have been awarded recognition.

The NHQA has two divisions one is open to all US companies that build or remodel residential homes using light construction methods. The other is open to all independent trade contractors that provide construction services to builders or remodeling companies.

The NHQA consists of a set of eight criteria:

1. **Leadership**

How do your company's senior leaders guide the organization toward a common purpose based on shared values and priorities?

2. **Strategic Planning**

How do you create and implement a strategic plan to achieve a vision for the future, enhance your competitive position and improve overall performance?

3. **Performance Management**

How are your company's business processes developed, managed, measured and improved to achieve performance excellence?

4. **Customer Satisfaction**

How does your company manage the design and delivery of products and services that promise a high level of customer satisfaction?

5. **Human Resources**

How do your employee selection and development practices, as well as staff performance management, well-being, motivation, satisfaction and compensation contribute to the growth of your organization?

6. **Construction Quality**

What methods does your company use to drive quality in the home construction process and ensure high performing, trouble free products and services?

7. **Trade Partnerships**

How do you create high performance relationship with your independent trade partners?

8. **Business Results**

What are the tangible measurements of the business benefits resulting from your high performance practices in the financial, operational, customer satisfaction and product and service quality areas?

There are a further series of sub-criteria with further detail within each criteria.

The NHQA has three levels of recognition, honorable mention, silver and gold.

Gold is awarded to those that have attained a national benchmark level within each area of evaluation; they have mature, fully integrated quality management principles and consistently demonstrate high level sustained results.

Silver is awarded to those that are industry leaders in most evaluation areas; they have many refined business practices, key measures for continual improvement and good business results.

Honorable mention is awarded in special circumstances for those that demonstrate an understanding of quality principles and show a sound, fact based improvement process. Key measures are in place and good business results are achieved in most areas.

Just as with the MBNQA, self-assessment can be conducted using the criteria. This can be used to identify strengths and target opportunities for improvement that impact; customers, employees, owners, suppliers and the public. This is not only a first step toward driving improvement throughout your organization but also toward the ability to write and submit an application. Writing an application is in itself a method of self-assessment, detailing how your organization addresses each of the criteria.

The application is reviewed by a team of judges who are experts in both the homebuilding industry and quality management. Those that are approved by the judges receive a site visit by a judging team that may last several days. In either case the applicant receives a detailed actionable feedback report to support continued improvement.

The application involves 15 pages, single sided, 12 point, times new roman font on 8 1/2 x 11 pages. One hard copy and one electronic is required. In addition a brief one-page profile of the company is provided. The profile will discuss:

- The types of products and services you offer
- The market and geographic areas you serve
- Your competitive situation
- New business directions
- Other relevant information

The NHQA process is lighter than the MBNQA but this is ideal to allow organizations to be introduced to the concepts, begin self-assessment, implement improvement, submit an application and gain valuable independent feedback for improvement. Also the NHQA is focused on the specific needs and expertise of the home building industry. The next step is to submit applications for Baldrige based State and local programs as a further step toward the MBNQA itself!

The deadline for applications this year is April 30th 2009.

For further information contact
jennifer.powell@reedbusiness.com
 or find more information at
<http://www.ProBuilder.com/NHQ>

About the Author: Denis Leonard Ph.D. of Business Excellence Consulting, is a construction engineer a Senior Member of ASQ, a Certified Manager of Quality, Auditor and Six-Sigma Black Belt. He has been a Lead Judge on the National Housing Quality Award and an Examiner on the MBNQA. Denis recently co-authored the book, An Executive Guide to Understanding & Implementing the Baldrige Criteria. He can be contacted at (406) 451-9124 and DenisLeonard@BusinessExcellenceConsulting.net

UPCOMING EVENTS

DATE	EVENT	LOCATION
<i>Mar. 11-15, 2009</i>	CONEXPO-CON/AGG http://www.conexpoconagg.com/	Las Vegas, NV
<i>April 1-4, 2009</i>	North American Steel Construction Conference http://www.eventsinamerica.com/events/nascc_north_american_steel_construction_conference_2009/ev481b3c02459f8/	Phoenix, AZ
<i>April 30 – May 2, 2009</i>	American Institute of Architects National Convention http://www.aiaconvention.com/	San Francisco, CA
<i>May 18-20, 2009</i>	ASQ DCD Quality in Sustainability at WCQI http://www.asq.org/conferences/quality-in-sustainability/index.html	Minneapolis, MN
<i>July 28-30, 2009</i>	Construction Industry Institute Annual Conference https://construction-institute.org/scriptcontent/ac.cfm	Reno, NV
<i>September 2009</i>	DCD and EED Annual Conference	Orlando, FL
<i>September 24-26, 2009</i>	AIA Practice Management Fall Conference http://www.aia.org/practicing/AIAB025048	Chicago, IL
<i>Oct. 15-16, 2009</i>	DCD and Audit Division Conference http://www.asq.org/audit/conferences/index.html	Tucson, AZ
<i>November 5-7, 2009</i>	Design-Build Conference and Expo http://www.designbuildexpo.com/2009dc.cfm	Washington, DC

Design and Construction Books of Interest

Highway Engineering and Traffic Analysis Report

There is more demand than ever for highway engineers due to new highway projects throughout the country. This new fourth edition provides interested engineers with the information needed to solve the highway-related problems that are most likely to be encountered in the field. It includes updated coverage on intersection sight distance, basics of signal timing, and interchange design. New sample FE exam questions are also presented throughout the chapters. Engineers will not only learn the important principles but they'll also be better prepared for the civil engineering exams.

For more information please click on:

http://www.researchandmarkets.com/product/9f26c8/principles_of_highway_engineering_and_traffic

Chapter 1 Introduction to Highway Engineering and Traffic Analysis

Chapter 2 Road Vehicle Performance

Chapter 3 Geometric Design of Highways

Chapter 4 Pavement Design

Chapter 5 Fundamentals of Traffic Flow and Queuing Theory

Chapter 6 Highway Capacity and Level-of-Service Analysis

Chapter 7 Traffic Control and Analysis at Signalized Intersections

Chapter 8 Travel Demand and Traffic Forecasting

Pricing: Hard Copy: EUR 118

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Fax to +353 1 4100 980

3] Order by mail: Print an Order form from

http://www.researchandmarkets.com/product/9f26c8/principles_of_highway_engineering_and_traffic and
post to Research and Markets Ltd. Guinness Center, Taylors Lane, Dublin 8. Ireland.

Construction Graphics Handbook

The Second Edition of this highly visual text brings together sketching, plan reading, and working drawing as they are used in the construction process. Hundreds of details from actual and idealized working drawings, with explanatory photographs and drawings show how construction graphics "translate" into construction methods and practices. The new edition includes more material on basic plan reading, new coverage plan examples including residential and commercial plan details.

For more information please click on:

http://www.researchandmarkets.com/product/8c7388/construction_graphics_a_practical_guide_to_i

CHAPTER 1 - Construction Graphics: An Overview

CHAPTER 2 - The Construction Business Environment

CHAPTER 3 - The Design Professional's Work Product

CHAPTER 4 - Construction Drawings

CHAPTER 5 - Sketching

CHAPTER 6 - Site Construction

CHAPTER 7 - Foundation Systems

CHAPTER 8 - Framing Systems

CHAPTER 9 - Cladding, Glazing, and Exterior Doors

CHAPTER 10 - Roof Systems

CHAPTER 11 - Interior Construction

CHAPTER 12 - Mechanical Systems

CHAPTER 13 - Electrical Systems

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DCD DIVISION COUNCIL FOR 2008 - 2009

A listing of the DCD's Division Council for 2008 – 2009 is provided below. The 2008 – 2009 term runs from July 1, 2008 until June 30, 2009. Individuals interested in getting involved with Division Leadership activities may contact anyone on the Division Council.

Position	Name	Telephone	E-mail
Division Chair	Cliff Moser	310-947-8509	dcd.chair@gmail.com
Past Chair	Ray Crawford	703-742-5977	Crawford@pbworld.com
Chair-Elect	John Mascaro	281-263-8972	John.mascaro@fluor.com
Vice Chair Design Firms	Daniel Kahler	512-983-3453	dannykähler@hotmail.com
Vice Chair Buildings/Structures	Greg Wennerstrom	403-514-1539	gwennerstrom@enmax.com
Vice Chair Trades and Standards	OPEN		
Vice Chair Infrastructure	Chuck Kanapicki	510-808-4609	ckanapicki@abfv.com
Vice Chair Industrial Construction	Tom Mudge	609-720-2539	Tom.mudge@wgint.com
Treasurer	Celia Gray	704-432-2199	cgray@ci.charlotte.nc.us
Secretary	Bill Hall	786-469-5457	whall@triangleassociates.cc
Certification	Pete Hunter	610-389-0362	charles.hunter@shawgrp.com
Membership	Cary Black	989-737-4486	cblack@duro-last.com
Community Care Administrator	Leta Thrasher	800-248-1946	lthrasher@asq.org

