



CONFERENCE GUIDE

37th Annual Review of Progress in Quantitative Nondestructive Evaluation

July 18-23, 2010

***Marriott San Diego Mission Valley*
*San Diego, California, U.S.A.***

SPECIAL NOTE: *The Marriott is located in Mission Valley, a neighborhood northeast of downtown San Diego and only seven miles from San Diego's airport (SAN). All technical sessions and social events will be at the Hotel.*

UPDATED INFORMATION IS HIGHLIGHTED IN YELLOW

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

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2010 DEADLINES

Abstracts due **Friday, May 7**

Abstracts acceptance date: **Friday, May 21**

Advance registration (*two weeks earlier than past years*): **Monday, June 14**

Hotel lodging:

QNDE has secured ten more rooms at the Marriott for check-in on Sunday, July 18 and checkout Friday, July 23 – at the group rate of \$139.

If you would like to book lodging at the conference hotel, please contact Karen Cheney, conference organizer, as soon as possible by e-mail or cell phone:

(317) 385-8482 (cell)
info@mainstayevents.com

Manuscripts due: **Friday, September 3**

ABSTRACT SUBMISSION

CLOSED

CONFERENCE PERSONNEL

<u>Abstracts, Manuscripts, Sessions</u>			
Sarah Kallsen	(515) 294-9749	(515) 294-7771 (fax)	skallsen@cnde.iastate.edu
Connie Nessa	(515) 294-6770	(515) 294-7771 (fax)	cnessa@cnde.iastate.edu
<u>Registration</u>			
Sarah Kallsen	(515) 294-9749	(515) 294-7771 (fax)	skallsen@cnde.iastate.edu
<u>Other Information</u>			
Heidi Long	(515) 294-8152	(515) 294-7771 (fax)	heidil@cnde.iastate.edu

CALENDAR OF EVENTS

All technical sessions and social events will be at the Marriott.

Marriott meeting space layout

<i>Sunday, July 18</i>	QNDE office & registration, Foyer	1:00 pm-6:00 pm
	Welcome Reception, Poolside <i>Spouses and guests will receive a welcome packet at this event.</i>	7:00 pm-9:00 pm
<i>Monday, July 19</i>	QNDE office & registration, Balboa	7:00-8:30 am and 10:30 am-5:00 pm
	Opening plenary session, Rio Vista Ballroom	9:00 am
	Concurrent technical sessions, Rio Vista Salons	1:30-5:30 pm
<i>Tuesday, July 20</i>	QNDE office & registration, Balboa	8:00 am-5:00 pm
	Poster session, Cabrillo Salons	1:30-3:30 pm
	Concurrent technical sessions, Rio Vista Salons	8:30 am-5:30 pm
	Conference dinner, Marriot Rio Vista Pavilion <i>Complimentary dinner for attendees, dinner fee for guests.</i>	Social Reception – 6:00 pm Meal served – 6:45
<i>Wed., July 21</i>	QNDE office & registration, Balboa	8:00 am-5:00 pm
	Concurrent technical sessions, Rio Vista Salons	8:30 am-5:30 pm
	<i>Birch Aquarium and Coast Walk, La Jolla</i> <i>Board motor coach at 9:00 am. Depart 9:15 am</i>	9:00 am-4:15 pm
	Evening technical session, Rio Vista Ballroom	8:00 pm
<i>Thursday, July 22</i>	QNDE office & registration, Balboa	8:00 am-5:00 pm
	Concurrent technical sessions, Rio Vista Salons	8:30 am-5:30 pm
	Poster session, Cabrillo Salons	1:30-3:30 pm
	QNDE 5K Fun Run, pathway near hotel	6:30 pm
<i>Friday, July 23</i>	QNDE office & registration, Balboa	8:00 am-12:00 pm
	Concurrent technical sessions, Rio Vista Salons	8:30 am-5:30 pm

TRAVELING TO SAN DIEGO/GROUND TRANSPORTATION

AIR TRAVEL:

San Diego International Airport – SAN (7 miles from the meeting site)

Contact Super Shuttle on-line (www.supershuttle.com) or by telephone: 800 BLUE VAN (800-258-3826) or 800-974-8885 OR take a taxi cab to the meeting site. When contacting Super Shuttle reference QNDE Group Code: FE47Z to receive a \$2 discount.

If you choose to drive to the Marriott: Take Harbor Drive to Highway 5 North. Take Highway 8 East exit (Qualcom exit). Go left on Qualcomm Way. Turn right on Rio San Diego Drive. The Marriott will be on your right.

Los Angeles International Airport – LAX (125 miles from the meeting site)

Renting a car and driving south to San Diego is a ground transportation option (2 1/4 hours or more driving time, depending on traffic).

Public transportation is available from Los Angeles (LAX); from LAX, take a taxi cab or FlyAway bus (visit www.lawa.org/, then choose link to LAX and then Ground Transportation) to Union Station, then take an Amtrak train (www.amtrak.com) to San Diego. Amtrak stations in San Diego share a trolley station ([San Diego Metropolitan Transit System \(SDMTS\)](#)) in two places: Santa Fe Depot and Old Town. Old Town is the closest to the Rio Vista trolley stop that is next to the Marriott.

ADDITIONAL GROUND TRANSPORTATION IN SAN DIEGO/MARRIOTT PARKING:

Once in San Diego, a rental car is not advised. The Marriott is adjacent to a trolley stop: Rio Vista ([San Diego Metropolitan Transit System \(SDMTS\)](#)). Downtown San Diego is less than a 30 minutes trolley ride from Rio Vista. Taxi cabs are available at the hotel's front entrance to take you to the many restaurants and shopping outlets in the area.

Yellow Cab, (619) 444-4444 (A text message with your pick-up address can be sent from a cell phone by entering 777222; a confirmation will be sent to you as a text message).

Orange Cab, (619) 291-3333

San Diego Cab, (619) 226-8294 OR (800) 368-2947

SELF-parking is available at the Marriott at a discounted \$5/day fee. Be sure to share your affiliation with the QNDE Conference when you pay the parking attendant. Valet parking is not discounted.

HOTEL LODGING

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If you would like to book lodging at the conference hotel, please contact Karen Cheney, conference organizer, as soon as possible by e-mail or cell phone:

***(317) 385-8482 (cell)
info@mainstayevents.com***

CONFERENCE GROUP MEALS – Marriott's Rio Vista Pavilion

You have the **option** of selecting **individual** group meals on your conference registration form.

QNDE encourages you to enjoy the ease of dining and networking with other colleagues in a private dining area at the Marriott.

Breakfast (Monday-Friday) will be served between 7:15 am and the time when technical sessions begin. Hot items including eggs and a meat item, pastries, fruit, juice selections, and coffee or tea will be offered for \$15.50.

Lunch (Monday-Thursday) will be served between 11:45 am and the time when technical sessions begin. A varied lunch, including a daily vegetarian option, will be offered for \$17.50. Beverages will be complimentary.

Pre-registration and pre-payment for group meals is required. No group dining options will be available for purchase on-site. There are restaurants at the Marriott and in the vicinity of the hotel.

NOTE: the *lunch vegetarian option* will **ONLY** be available to those persons who select a vegetarian special diet on the conference registration form. Breakfast menus contain vegetarian choices.

Monday, July 19

QNDE Group Buffet Breakfast

Chilaquiles (Mexican-style scrambled eggs with tortillas & sauce) / Chorizo Sausage / Chile Cilantro Potatoes / Fresh Fruit / Pastries / Assorted Juices / Coffee & Tea

QNDE Group Buffet Lunch

Mixed Green Salad / Meat Lasagna / Vegetable Lasagna / Garlic Bread, Chef's Choice of Dessert

Tuesday, July 20

QNDE Group Buffet Breakfast

Scrambled Eggs with Cheese / Bacon / Country-style Breakfast Potatoes / Fresh Fruit / Pastries / Assorted Juices / Coffee & Tea

QNDE Group Buffet Lunch

Spinach Salad / Teriyaki Chicken / Steamed Rice / Vegetable Medley / *Grilled Tofu* / Chef's Choice of Dessert

Wednesday, July 21

QNDE Group Buffet Breakfast

Scrambled Eggs with Spinach, Mushrooms, and Cheese / Sausage / Herbed Potatoes / Fresh Fruit / Pastries / Assorted Juices / Coffee & Tea

QNDE Group Lunch

Mixed Green Salad / Carne Asada (grilled meat) / Cheese Enchiladas / Rice & Beans / Chef's Choice of Dessert

Thursday, July 22

QNDE Group Buffet Breakfast

Scrambled Eggs with Cheese / Bacon / Sliced Potatoes with Onions / Fresh Fruit / Pastries / Assorted Juices / Coffee & Tea

QNDE Group Buffet Lunch

Caesar Salad / Oregano Roasted Chicken Breast / *Pasta Primavera with Parmesan Cheese* / Garlic Mashed Potatoes / Vegetable Medley / Chef's Choice of Dessert

Friday, July 23

QNDE Group Buffet Breakfast

Scrambled Eggs with Peppers and Onions / Ham / Spanish Potatoes / Fresh Fruit / Pastries / Assorted Juices / Coffee & Tea

NO QNDE Group Lunch on Friday.

CONFERENCE DINNER (Tuesday, July 20) – Marriott's Rio Vista Pavilion

You have the **option** of making a dinner reservation on your conference registration form. One dinner and two drink tickets are complimentary with each conference registration.

Guest dinner reservations, at an extra charge, can be added to your registration form. Adult guest: \$45.00 for dinner and two drink tickets (beer or wine).

Child 3-12: \$20.00 for dinner and complimentary soda.

Adult Conference Dinner Entree *Choices* (Please make your selection/s on the conference registration form.):

- **Fish:** polenta-crusted halibut served with olives, tomatoes and sweet onion
- **Chicken:** Napa Chicken with pan drippings infused with lemon & roasted garlic
- **Vegetarian:** oven roasted red pepper with pine-nut, raisin risotto over warm balsamic-flavored spinach

All adult entrees will be accompanied by a seasonal green salad with choice of dressings, assorted rolls with butter/margarine and appropriate side dishes plus a dessert: Hawaiian coconut cream cake or angel food cake with berries and fresh whipped cream. Coffee and tea service available.

Child Conference Dinner Entree:

- Fruit cup, assorted rolls with butter/margarine, veggie croquette, French fries, and rainbow sherbet.

FUN RUN, 5K – Thursday, July 22

Register your interest in this event by selecting it on the QNDE Conference registration form.

GUEST EVENT – Wednesday, July 21 – La Jolla

Motorcoach boarding at 8:45 am; departure at 9:00 am

All-day Events: Birch Aquarium Tour & Coast Walk at the La Jolla Cove (lunch and shopping on own in downtown La Jolla).

In the morning, guests will enjoy an Ask-Me-Docent-led tour of the Birch Aquarium in La Jolla (www.aquarium.ucsd.edu). The aquarium is associated with the world-renown Scripps Institution of Oceanography. The aquarium showcases a variety of marine life from the cold waters of the Pacific Northwest to the tropical waters of Mexico and the South Pacific. A beautiful view of the Pacific Ocean can be viewed from the outdoor tide-pool plaza.

Lunch in La Jolla will be on your own. There are many restaurant choices in La Jolla. It is also a wonderful place for shopping.

In the afternoon, guests will take a docent-led Coast Walk (90 minutes, approximately two miles). We will enjoy a dramatic landscape and will also learn about marine life, birds, plants, and geological formations in an area known as the La Jolla Cove.

Transportation back to the Marriott will be scheduled for 4:15 pm.

CONFERENCE REGISTRATION PROCEDURE

SUBMIT registration online at: www.qndepprograms.org/2010/Conference2010.html.

FAX, SCAN/EMAIL, or MAIL registration form found at www.qndepprograms.org/2010/Conference2010.html to: 515-294-7771, skallsen@cnde.iastate.edu, or QNDE Programs, 111 Applied Sciences Complex II, 1915 Scholl Road, Ames, IA 50011-3042.

SAN DIEGO – LOCAL INFORMATION

Average July daytime temperature: 76°F (24°C)

[San Diego Convention and Visitors Bureau](#)
[Balboa Park](#)
[Fashion Valley Mall](#)
[LEGOLAND](#)
[San Diego Beaches](#)
[San Diego Maritime Museum](#)
[San Diego Missions](#)
[San Diego Padres](#)
[San Diego Zoo and/or Wild Animal Park](#)
[Sea Port Village](#)
[SeaWorld](#)
[USS Midway Museum](#)

STUDENT POSTER COMPETITION

Poster presentation site: Marriott's Cabrillo Salons.
Poster boards are 4 ft. by 8 ft. (horizontal display).
Pushpins will be provided at the meeting site.

A team of distinguished people in the field of NDE/NDT will judge on:

- technical content and thoroughness of work
- quality of the poster materials and overall presentation
- student's mastery of the poster subject and her/his ability to defend it during judging.

Guidelines

1. Selected student posters (see preliminary program) should be displayed between 3:00-6:00 pm on Monday, July 19.
2. Do **not** include your name, affiliation, or any logos that would identify either the author or your institution for Monday's judging.
3. Initial judging will be in a closed session on Monday evening.
4. For the scheduled poster session on Tuesday, please **add** an opening page for your poster that details your name, affiliation, and any logos. You will need to stand by your poster during this phase and present the poster's contents to the

audience. The audience will contain competition judges (unknown to you) who will complete their evaluations at this time.

5. Winners will be announced at the Tuesday evening conference dinner.
6. Include: Title and author/s (top of page), brief introduction, experimental detail, results, and conclusion
7. Posters should be readable at a maximum distance of 12 feet.
8. Use sans serif font in a legible point size (minimum of 72 for title, 36 for authors, 18 for text).
9. Text should be double-spaced.
10. *Limit* text and graphics per page for enhanced readability

VERBAL and POSTER PRESENTATION GUIDELINES

Microsoft Office 2007

The computers in the meeting rooms will be using Microsoft Office 2007.

Cancellation Policy

If an author is unable to present an accepted paper, it is expected a co-author or colleague will make the presentation for the author to avoid cancellation. Cancellation of papers provides a scheduling hardship that jeopardizes the credibility of QNDE.

Publishing Policy

Presented papers and posters are published by the American Institute of Physics in a professional two-volume, hard-bound publication with CD that is referenced worldwide. A Transfer of Copyright Agreement, Offprint/Reprint Order Form, and the Author's Instructions are on the QNDE website.

For timely publication and distribution, authors should adhere to all instructions. Manuscripts are due September 1, 2009; late manuscripts may not be published.

Verbal Presentations

Meeting rooms will be equipped with: microphone/s, lectern, screen, LCD projector, computer (PC).

PowerPoint™ Presentations

Unless an author has been notified differently, talks should be prepared for a 17-minute presentation time and a 3-minute discussion period.

√ Presentations should be **on a CD-ROM or memory stick / flash drive.**

(IF you create a CD, be sure to close or finalize your session. IF this step is omitted, the conference computers will be unable to read your file.)

√ Personal laptops are discouraged due to "set-up" time requirement.

√ **Presenters will be responsible for loading their OWN presentations on the computers in each meeting room** no later than 20 minutes prior to the start of their scheduled morning or afternoon session. Presentations will be deleted at the end of each half-day session.

Back-up file/s

Please bring a **backup copy** of your file/s in a separate piece of luggage.

A/V Technical Support

√ Available upon request; technicians will NOT be assigned to meeting rooms.

Naming PowerPoint™ Files

√ Day of week: *M=Monday T=Tuesday W=Wednesday R=Thursday F=Friday*

√ Time of day: (0900a for 9:00am and 0430p for 4:30pm)

√ First initial of first name and then last name. (Leave a space after the time and a period after your first initial.)

Examples:

-If you are presenting Thursday at 9:00am and your name is John Jones, name your PowerPoint™ presentation as follows: **R0900a J.Jones.ppt**

J.Jones.ppt

- If you are presenting Tuesday at 4:30 pm and your name is John Jones: **T0430p J.Jones.ppt**

If possible, rename other files that go with your PowerPoint™ presentation (such as videos) the same way but with the correct file extension. Then re-link the object back into the presentation.

Video and Images

Pack and Go / Package for CD / Packages (Windows and Macintosh Office for OS X only) are recommended if you are embedding video or sound files. It will create a single compressed file. Select **File / Pack and Go**; you may have to load this feature.

Create **Video or movies** with standard compression codecs (video format) that are in use by Windows. Save files as AVIs or MPGs only using codecs: Cinepak, Intel Indeo Video R3.2, Indeo 5.10, Intel RAW, or Mpeg4.

Insert **Images or pictures** with a dpi setting no higher than 75; JPG images are preferred. Limit the number of images in your 17 minutes presentation time. Use common image formats that are cross-platform such as: **JPG, PNG, GIF, TIF, and BMP.**

Recommended **Fonts for PC's**: Times New Roman, Arial and Tahoma. Use common cross-platform **Fonts for Macintosh**: Times New Roman, Arial, and Courier.

Instructions for imbedding *other* fonts in your PowerPoint™ presentation:

Office XP: 1. Click **File**, and then **Save As**. 2. From the Tools drop down menu, select **Save Options**. 3. At the bottom of the menu you will see an Embed TrueType Fonts check box. **Check** the box.

Office 2000: 1. Click **File**, and then **Save As**. 2. From the Tools drop down menu, select Embed TrueType Fonts.

Apple Computers: If you are using PowerPoint™ 2001, install Microsoft Office 2001 Service Release 1 *before* creating your presentation. You can find this at <http://www.microsoft.com/mac/download/office2001/sr1.asp>

Movies: PowerPoint™ supports QuickTime movies up to version 2.5. It is best to create movies as AVI files; for compression, use Cinepak instead of Sorenson. Movies can be converted to mpeg format in QuickTime Pro. (QuickTime is not native to Windows computers.) Please test your movies and presentation on a Windows machine before finalizing your show.

Suggestions for simple entry Animations: fly in/out, appear, and dissolve.

- Poster Presentations**
- √ Pushpins will be provided at the poster presentation site (*Memorial Union Ballroom*)
 - √ Poster boards are 4 ft. by 8 ft. (horizontal display).
 - √ Include: Title and author/s (top of page), brief introduction, experimental detail, results, and conclusion
 - √ Posters should be readable at a maximum distance of 12 feet.
 - √ Use sans serif font in a legible point size (minimum of 72 for title, 36 for authors, 18 for text).
 - √ Text should be double-spaced.
 - √ *Limit* text and graphics per page for enhanced readability
- Viewgraphs/Slides Readability**
- √ Minimum letter height: 3/16" (18 point) or 1/15 of horizontal slide dimension.
 - √ Headings: 1/4" (24 point) or larger.

TRAVEL SECURITY MEASURES

Visitors to the United States are strongly encouraged to visit the following web sites for current travel information:

www.CBP.gov/esta **NEW** requirement for Visa Waiver Program countries
Requires biographical information to be submitted electronically at least 72 hours *prior* to your flight departure.

www.dhs.gov/us-visit

www.travel.state.gov

www.dhs.gov/xtrvlsec/programs/content_multi_image_0021.shtm

VISA AND PASSPORT GUIDELINES FOR TRAVEL TO THE UNITED STATES

The **2010 QNDE Conference – San Diego, California** is registered with the National Academies' International Visitors' Office and the U.S. State Department to assist conference attendees with both the visa application process and the passport updating process.

To be sure your travel documents are in compliance; please visit your own government-sponsored web site which will provide updated passport information with specific regard for traveling to the U.S.

Current passport and visa requirements, even for visitors from visa waiver program countries, may take many months to process. It is important to note the expiration date of your current passport, as a renewal may require additional passport features that may take extra time to process. On or after October 26, 2006, any passport issued by a Visa Waiver Program (VWP) country must be an **e-passport** in order for VWP travelers to be eligible to enter the United States without a visa.

A **NEW** (as of January 16, 2009) requirement called the Electronic System for Travel Authorization (ESTA) is in effect. It requires travelers from Visa Waiver Program (VWP) countries to submit biographical information electronically before boarding a U.S.-bound airplane or ship. The information must be submitted electronically at least 72 hours in advance of travel. QNDE recommends that you complete an ESTA application **as soon as possible**. ESTA authorization will be valid for two years. For more information about ESTA, visit www.CBP.gov/esta.

Conference attendees **requiring a visa** must make an interview appointment with the nearest U.S. embassy or consulate in her/his own country. The in-person interview may sometimes require travel to another city. The process may take a long while and will require paying a fee and undergoing a background check. Please research the documents that are required to support your application.

Applying for a Visa www.unitedstatesvisas.gov

US-VISIT COMPLIANCE

The US-VISIT program includes visitors traveling under the Visa Waiver Program (VWP). The US-VISIT requirements do **not** replace visa requirements for entering the U.S. Please begin the US-VISIT process at the consular office where visas are issued.

www.dhs.gov/xtrvlsec/programs/content_multi_image_0006.shtm,
www.globalsecurity.org/security/systems/usvisit.htm

WORLD FEDERATION OF NDE CENTERS SHORT COURSE

The World Federation of NDE Centers is pleased to announce a two day comprehensive short course on **Probability of Detection**: Saturday-Sunday, July 17-18. The short course precedes the 2010 QNDE Conference. Short Course details can be found at <http://www.wfndec.org/>.