



### Corporate Headquarters

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## 2012 Design Software Workshop (DSW) Information & Registration Form

Design Software Workshops (DSWs) are an opportunity for current and prospective *Concepts NREC (CN)* software users to obtain hands-on training in the latest versions of the Agile Engineering Design System® turbomachinery design and analysis software.

### Workshop Information

Workshops are designed to meet the requirements of both expert Design Engineers and those with limited knowledge. To assure specific needs are met, participants are strongly encouraged to specify their areas of interest on the Registration Form so Workshop content can be customized accordingly. Participants interact directly with CN Design Engineers and Development Staff, as well as the other users, to enable a complete exploration of the software's capabilities, including future enhancements.

Reserve your space early as attendance is limited to allow for the highest possible level of participant and staff interaction.

### Workshop Outline

- Each Workshop is run over several days
- Each day runs from 8:30 AM to 4:30 PM
- Topics are broken out by day:
  - Monday** — Meanline Design & Analysis
  - Tuesday** — Blade Design, Streamline Curvature
  - Wednesday** — CFD Analysis, Stress Analysis
  - Thursday** — Design Examples, Q & A, Discussion

### Why should you attend a Design Software Workshop?

- Learn the fundamentals of using a state-of-the-art turbomachinery design system
- Use meanline analysis for rapid performance prediction and map generation
- Calculate machine choke and stall range
- Use robust and efficient streamline curvature methods to rapidly determine optimum aerodynamic shapes
- Run quasi-3D CFD techniques for rapid viscous solutions
- Analyze complex 3D flow fields with Navier-Stokes CFD calculation
- Learn to analyze stress and vibration frequency through rapid FEA pre-processing

### 2012 WORKSHOP DATES

- January 16-19
- March 26-29
- May 21-24
- July 23-26
- September 10-13
- November 12-15

Workshop dates/locations may change. Please go to [www.ConceptsNREC.com](http://www.ConceptsNREC.com) for the most current information.

### Workshop Location

All DSW's listed here are held at the **CN** Headquarters in White River Junction, VT / USA. Secure lodging by making hotel reservations at least two weeks prior to the Workshop. Visit [www.ConceptsNREC.com](http://www.ConceptsNREC.com) for directions, a list of local hotels, and other travel information.

### Registration Information

Register for the 4-day Workshop or for single days. Fees are \$400 US per day, which includes materials and lunch/refreshments. APS (Agile Product Support) Members get a discount. Registration fees are due in advance as attendance is limited. Registering without payment does not reserve space. Enrollment priority will be given in the order of payment received. Registrants may cancel and receive a full refund if notice is received two weeks prior to the Workshop start date. After that, payment may be applied toward other CN Courses, Workshops, Events, or Publications.

**Concepts NREC strives to provide DSWs as scheduled. Any changes will be promptly relayed to registrants. Please check [www.ConceptsNREC.com](http://www.ConceptsNREC.com) for the most current information.**

## Choose your Design Software Workshop

You can register for the entire 4-day Workshop or single days. Please refer to the daily topics (on other side) to choose the single days.

### January 16-19, entire 4-day Workshop (\$1600)

- Monday, 1/16 (\$400)       Tuesday, 1/17 (\$400)  
 Wednesday 1/18 (\$400)       Thursday 1/19 (\$400)

### March 26-29, entire 4-day Workshop (\$1600)

- Monday, 3/26 (\$400)       Tuesday, 3/27 (\$400)  
 Wednesday 3/28 (\$400)       Thursday 3/29 (\$400)

### May 21-24, entire 4-day Workshop (\$1600)

- Monday, 5/21 (\$400)       Tuesday, 5/22 (\$400)  
 Wednesday 5/23 (\$400)       Thursday 5/24 (\$400)

### July 23-26, entire 4-day Workshop (\$1600)

- Monday, 7/23 (\$400)       Tuesday, 7/24 (\$400)  
 Wednesday 7/25 (\$400)       Thursday 7/26 (\$400)

### September 10-13, entire 4-day Workshop (\$1600)

- Monday, 9/10 (\$400)       Tuesday, 9/11 (\$400)  
 Wednesday 9/12 (\$400)       Thursday 9/13 (\$400)

### November 12-15, entire 4-day Workshop (\$1600)

- Monday, 11/12 (\$400)       Tuesday, 11/13 (\$400)  
 Wednesday, 11/14 (\$400)       Thursday, 11/15 (\$400)

## Training Requirements

What would you like to concentrate on? (Please select one from each column.)

- |                                      |  |
|--------------------------------------|--|
| <input type="checkbox"/> Compressors | <input type="checkbox"/> Radial/Mixed Flow |
| <input type="checkbox"/> Fans        | <input type="checkbox"/> Axial             |
| <input type="checkbox"/> Pumps       |  |
| <input type="checkbox"/> Turbines    |  |

Please indicate your level of design experience on this scale with an "X."

0 ----- 1 ----- 2 ----- 3 ----- 4 ----- 5  
Very Little Expert

Approx. how many turbomachine stages did your company design or redesign in the last year? \_\_\_\_\_

How many were completely new designs? \_\_\_\_\_

How many were redesigns or modifications to existing designs? \_\_\_\_\_

## Participant Information

- Mr.     Ms.     Mrs.     Dr.     Professor

First Name

Last Name

Job Title

Company

Mailing Address (with Mailstop, if appropriate)

City

State/Province

Country

Postal Code

Phone

Fax

E-mail

### Export Compliance Information

I am a US citizen. (circle)

Yes

No

If No, please state your country of residence, country of origin and country of citizenship, as well as type of Visa or Green Card, or whether you will enter the US under a Visa Waiver Program: \_\_\_\_\_

The primary purpose for the technology/information gained from this course will be (please specify):

- Military Use     Commercial Use     Educational Use

I declare that the technology/information that I purchase through this CN Workshop is not for Nuclear, Chemical Weapon, or Missile Test, and will not be re-exported to any country or national of another country without prior written permission from CN.

Signature: \_\_\_\_\_

## Payment Information

- I am attending per recent purchase/lease of software.  
 My company is a current APS (Agile Product Support) member.

**APS Discounts:** The first Workshop attendee may apply a 50% discount, the second attendee may apply a 25% discount and subsequent attendees may apply a 10% discount.

\$ \_\_\_\_\_ Total (from above)     Check     Visa     Mastercard     AmEx

Credit Card Number

Exp Date

Sec Code

Name as it appears on Credit Card

**E-mail this form to: support@ConceptsNREC.com or Fax to: 802.296.2325**