TECHNICAL CAREER WORKSHOPS FOR YOUNG WOMEN

Tuesday, March 11, 2003, 8:00 a.m. to 3:30 p.m.
Los Alamos National Laboratory, Los Alamos, NM

The **2003 Expanding Your Horizons Conference (EYH03)** will be held on **Tuesday, March 11**, at the Immaculate Heart of Mary Catholic Church Parish Hall in Los Alamos from 8:00 am to 3:30 pm. We are asking you to place this important date on your school calendar.

This conference offers **students in grades 8, 9, and 10** a unique opportunity to explore careers in science, engineering, and mathematics. Each young woman will participate in two "hands-on" workshops conducted by outstanding women scientists. Lunch will be provided, and the day will finish with our featured speaker Dr. Julie Canepa, task leader for a Radiological Dispersal Device Project at Los Alamos National Laboratory -- an effort aimed at developing mitigation technologies to use in the event of a terrorist attack with a so-called "dirty bomb". In her talk, *From Chemistry to Cleanup*, Julie will discuss her journey through traditional science study to leading large complex environmental projects. We hope many of the young women attending EYH03 will aspire to become leaders in their chosen fields.

We invite each school to bring **five young women**. Application forms and further information are enclosed. We strongly recommend getting the registration forms in by **February 20** if possible: registrations after this deadline will be accepted only as space is available (we are targeting having 150 participants this year). Registrations may be returned by regular mail, FAX, or email. While we encourage the participants to stay for the entire day, we can accommodate schools whose schedules do not allow this. Due to past incidents, if you leave early you must check out at the registration desk.

For the students' teachers or adult sponsors who choose to accompany the students to EYH03, the Los Alamos National Laboratory Education Programs Office is hosting a **Teacher Conference (TC03)**, finishing also with the keynote speaker. While the program is similar to previous years, it will not simply be a repeat -- the program will be designed to compliment previous adult programs taking into account that there will be both new and returning attendees. *A separate invitation letter and registration form are enclosed.* Note: To attend TC03 **you must have students attending EYH03**, and funding will tentatively be available for a substitute teacher.

Finally, we may also be able to provide limited funding for bus/car mileage.

If you have any questions, you can contact:

- **EYH Chair**: Georgia Pedicini, TEL:505-667-8117, FAX:505-665-6333, gap@lanl.gov
- **Registration**: Lisa Colletti, TEL:505-667-9621, FAX:505-665-4737, lcolletti@lanl.gov
- **Teacher Conference**: Sandra Landry, TEL:505-665-6346, FAX:505-665-6871, landry@lanl.gov

On-line information can be found at http://lawis.lanl.gov/EYH,
and driving directions to Los Alamos at http://lawis.lanl.gov/Maps/Driving_to_LA.gif.
Due to the enhanced security requirements for use of LANL facilites, this year's EYH03 and TC03 locations are in a different part of town than where we have traditionally held our EYH conference - see the section on conference location for more details. Also, the exact schedules of EYH03 and TC03 are subject to change. Participants who register by Feb. 20 will be sent confirmation of their registration, along with any additional maps or program updates.

This will be our 25th Annual Expanding Your Horizons Conference jointly sponsored by the Northern Chapter of the New Mexico Network for Women in Science and Engineering and by Los Alamos National Laboratory. Both organizations are eager to expand your student's horizons and invite you to join us and other guests from Northern New Mexico for an enriching day!

Sincerely,

Georgia Pedicini
CCN-7, MS B294
Los Alamos National Laboratory
Los Alamos, NM 87545
gap@lanl.gov
Phone: (505) 667-8117
Fax: (505) 665-6333

LAWIS EYH page: http://lawis.lanl.gov/EYH
LAWIS home page: http://lawis.lanl.gov
NMNWSE home page: http://www.nmnwse.org

TECHNICAL CAREER WORKSHOPS FOR YOUNG WOMEN
Tuesday, March 11, 2003, 8:00 a.m. to 3:30 p.m.
Los Alamos National Laboratory, Los Alamos, NM

EYH Keynote speaker

Dr. Julie Canepa

Health, Safety, and Radiation Protection Division
Los Alamos National Laboratory

From Chemistry to Cleanup

Julie will discuss her journey through traditional science study to leading large complex environmental projects. She will use her career to illustrate the successes and pitfalls of being a women in science.

Dr. Canepa joined the Los Alamos National Laboratory in 1985 and is currently a task leader for a Radiological Dispersal Device Project - a high priority Homeland Security effort aimed at preventing or mitigating terrorist attacks with so-called "dirty bombs" which could contaminate a city or its water supply with radioactive waste. She was the Program Manager for the Environmental Restoration Project from 1997 to May of 2002. The mission of the Environmental Restoration Project is to remedy environmental problems caused by 50 years of Laboratory operations by bringing together multi-disciplinary, world-class science, engineering, and state-of-the-art management practices. From 1992 to 1997 Dr. Canepa served as Group Leader of the Radioactive Waste Management Research and Development Group. During that time she also was the Program Manager for the Los Alamos Yucca Mountain High-Level Radioactive Waste Repository Project. Yucca Mountain is the nation's first long-term geologic repository for spent nuclear fuel and high-level radioactive waste from nuclear power generation and national defense programs. Dr. Canepa has also directed the development and application of actinide science, hydrologic science, information management, performance assessment and contaminant transport modeling in support of radioactive waste disposition and cleanup.

Dr. Canepa received her Ph.D. in Chemistry in 1985 from Arizona State University, Tempe, AZ. Her BS degree in Chemistry was received in 1979 from Saint Mary's College, Notre Dame, IN.

TECHNICAL CAREER WORKSHOPS FOR YOUNG WOMEN
Tuesday, March 11, 2003, 8:00 a.m. to 3:30 p.m.
Los Alamos National Laboratory, Los Alamos, NM

TENTATIVE PROGRAM

8:00-8:30	Registration, Welcome, and Morning Snack
8:30-9:45	(Team Activity)
10:00-11:15	Student Workshop One
11:15-12:00	Lunch
12:00-12:45	(Team Activity)
1:00-2:15	Student Workshop Two
2:25-2:30	Afternoon Snack
2:30-3:25	**Keynote Speaker** Dr. Julie Canepa, *Los Alamos National Laboratory* **From Chemistry to Cleanup**
3:30	Departure

Lunch will be provided and you are encouraged to stay for the entire day. The talk at 2:30 by the featured speaker, Dr. Julie Canepa, should be a real treat!

Adult sponsors please note:
There will be a separate program for the adult sponsors who choose to accompany the students to EYH03, finishing also with the keynote talk. As in previous years, it will be run by the STB office at LANL, but it will not simply be a repeat -- it will be designed to take into account that there will be both repeat and new attendees. An invitation letter and separate registration materials are posted on the EYH03 website, or contact the Teacher Conference Coordinator Sandra Landry, 505-665-6346, landry@lanl.gov, for information.

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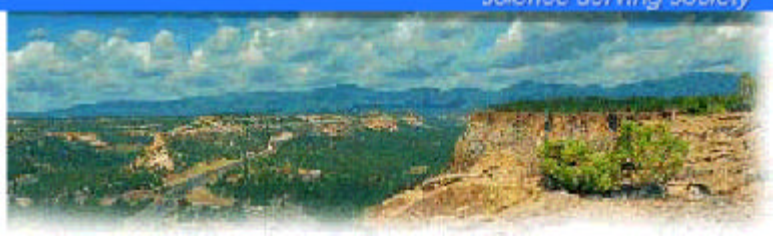
LANL STB Education Programs



01 January 2003

RE: **Teacher Conference (TC03)**, Tuesday March 11, 2003
Sponsored by Los Alamos Women in Science and
the Education Programs Office, Los Alamos National Laboratory

Dear Science or Math Educator:

Los Alamos National Laboratory (LANL) places a high value on the influence of teachers on career choices made by students. In recognition of that value, those **teachers accompanying their students to the annual Expanding Your Horizons Conference (EYH03)** sponsored at LANL by Los Alamos Women in Science on **Tuesday, March 11, 2003**, are invited to participate in TC03, a separate same-day Teacher Conference. Unfortunately due to space limitations, **EYH03 targets 8-10 grade girls**. Hence TC03 participation is also limited to those working with students in these grades.

The Teacher Conference is sponsored by the LANL Education Programs Office. It will be similar in format to last year's well-received program: a workshop on equity in the classroom in the morning followed by a science activity in the afternoon. While the details have not yet been finalized, the program will take into account that there will be both new participants and teachers who participated last year, and so it will not merely be a repeat.

To expedite your participation in this Teacher Conference, LAWIS will tentatively provide funding for a substitute teacher to cover your classes for the day. Registration for the Teacher Conference is free, but you must have student participants in attendance at EYH03. LANL will provide your lunch that day.

I hope that you, as a math or science teacher interested in encouraging female students to pursue engineering/math/science/technology careers, will register for this Teacher Conference that takes place in Los Alamos as your students attend the EYH conference. Just complete and return the Teacher Conference Registration portion of the Adult Sponsor Form if you plan to participate.

Hope to see you on March 11!
Sandra Landry, Program Coordinator

Science and Technology Base Programs/
Education Programs Office (STB/EPO)
P.O. Box 1663, Mail Stop M700
Los Alamos National Laboratory
Los Alamos, NM 87575

TEL: (505) 665-6346
FAX: (505) 665-6871
E-Mail: landry@lanl.gov
Online Information:
http://lawis.lanl.gov/EYH

LANL STB Education Programs Office Home Page: http://education.lanl.gov/EPO

Expanding Your Horizons 2003
Teacher Conference

Tuesday, March 11, 2003, 8:00 AM to 3:30 PM
Departs from the EYH03 Registration Desk,
Los Alamos National Laboratory, Los Alamos, NM

Sponsored by Los Alamos Women in Science and
the Education Programs Office, Los Alamos National Laboratory

EYH Teacher Conference

Canyon Complex

Getting an Education
Isn't Just Going To School
Learning is a lifelong experience, with every day offering new opportunities to explore your world.

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TENTATIVE PROGRAM	
8:00 - 8:30	Deliver students to EYH03 location, sign them in, and then sign in for TC03 (TC03 and EYH03 registration are at the same location)
8:30 -8:45	Teachers will go to Canyon Complex (transportation provided by TC03)
8:45 - 9:00	***Welcome to Teachers/Introduction of Keynote***
9:00 - 9:45	***TC03 Keynote Address***
9:45- 10:00	break
10:00 - 12:15	***Lectures and Demos***
12:15 - 1:00	Lunch at TC03 location (to be provided by STB-EPO)
1:00 - 2:15	***More Lectures and Demos***
2:15 - 2:30	Return to EYH03 location (transportation provided by TC03)
2:30 - 3:25	**Join students and hear EYH Keynote Speaker**
3:25 - 3:35	departure

The Northern Chapter of

New Mexico Network for Women in Science and Engineering
and
Los Alamos National Laboratory
Present

TECHNICAL CAREER WORKSHOPS FOR YOUNG WOMEN

Tuesday
March 11, 2003
8:00 a.m. to 3:30 p.m.

Los Alamos, NM
(see note at end for exact location and directions)

Attendance is limited: Early registration is strongly encouraged!

EXPANDING YOUR HORIZONS WORKSHOP GOALS:

- To increase young women's interest in and awareness of mathematics, science, and other nontraditional professions.
- To provide students an opportunity to meet and form personal contacts with women working in traditionally male occupations.

LAWIS-LANL/Expanding Your Horizons Student Workshop (EYH03)

Tuesday, March 11, 2003

- **EYH03 Workshop Invitation Letter:**
  http://lawis.lanl.gov/EYH03/NEYH03_invite.html
- **EYH03 Student Registration Form:**
  http://lawis.lanl.gov/EYH03/NEYH03_regis.html
- **EYH03 Adult Sponsor Form:**
  http://lawis.lanl.gov/EYH03/NEYH03_sponsor.html
- **EYH03 Workshop tentative Program:**
  http://lawis.lanl.gov/EYH03/NEYH03_program.html

Student registrations will be accepted until all slots are filled - please contact the EYH Registration Chair to check space availability. All students are required to have an adult sponsor, however the sponsor is not required to accompany the students to EYH03. Sponsors who do accompany the students to EYH03 may not attend the Student Workshops (unless needed to assist with a disability or similar exceptional circumstances) in order to give more room for the participants: a separate Teacher Conference is provided for accompanying adult sponsors.

☞ The keynote speaker is Dr. Julie Canepa. In her talk, *From Chemistry to Cleanup*, Julie will discuss her journey through traditional science study to leading large complex environmental projects. We hope many of the young women attending EYH03 will aspire to become leaders in their chosen fields!

LAWIS-LANL/STB Teacher Conference (TC03)

Tuesday, March 11, 2003

- **Teacher Conference 2003 Invitation Letter:**
  http://lawis.lanl.gov/EYH03/TC03_info.html
- **Teacher Conference 2003 Registration Form:**
  http://lawis.lanl.gov/EYH03/TC03_regis.html
- **Teacher Conference 2003 tentative Program:**
  http://lawis.lanl.gov/EYH03/TC03_program.html

All adult sponsors accompanying students attending the EYH Workshop are invited to participate in the Teacher Conference run by the Education Programs Office at LANL. To attend the adult workshops, you must have students attending EYH03. Funds to pay for a substitute teacher while you attend the Teacher Conference tentatively will be available: simply fill in the appropriate lines on the Teacher Conference registration form.

For more information contact:

EYH Chair:
Georgia Pedicini
CCN-7, MS B294
Los Alamos National Laboratory
Los Alamos, NM 87545
gap@lanl.gov
Phone: (505) 667-8117
Fax: (505) 665-6333

EYH Registration:
Lisa Colletti
C-AAC, MS G740
Los Alamos National Laboratory
Los Alamos, NM 87545
lcolletti@lanl.gov
Phone: (505) 667-9621
Fax: (505) 665-4737

Teacher Conference:
Sandra Landry
STB/EPO, MS M700
Los Alamos National Laboratory
Los Alamos, NM 87545
landry@lanl.gov
Phone: (505) 665-6346
Fax: (505) 665-6871

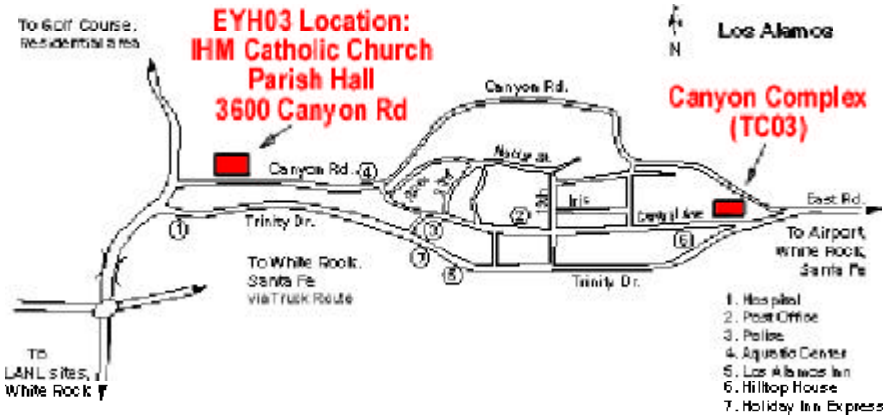
☞ CONFERENCE LOCATION ☜

Due to the enhanced security requirements for use of LANL facilites, we will once again be holding our EYH conference off site. Repeat attendees please note that this year's location is in a different part of town than where we have traditionally held our EYH conference.

EYH03 Location: : Immaculate Heart of Mary Catholic Church Parish Hall,
3600 Canyon Road, Los Alamos.

TC03 Location: : Canyon Complex near the eastern edge of Los Alamos townsite

Teachers are to bring their students to the EYH03 location and park there. Teachers should help their students sign in for EYH03, and then sign themselves in for TC03. TC03 registration will be at the same place as EYH03 registration, and transportation will be provided to take the teachers from EYH03 to TC03 and back.



See http://lawis.lanl.gov/Maps/Driving_to_LA.gif for driving directions to Los Alamos.

- ***Careers: Exploring the Possibilities***
  http://lawis.lanl.gov/career.htm
  Our Careers Booklet, created and published by NMNWSE
  for our EYH workshops. (A copy is given to all EYH student participants.)
- Other NMNWSE Chapter EYH Workshops:
  http://www.nmnwse.org/EYH.html
- Math/Science Network's National EYH page:
  http://www.expandingyourhorizons.org
- **Links to other EYH/student/mentoring/science sites:**
  http://lawis.lanl.gov/NMNWSE/EYH/RelatedSites.html

LAWIS home page: http://lawis.lanl.gov
NMNWSE home page: http://www.nmnwse.org

TECHNICAL CAREER WORKSHOPS FOR YOUNG WOMEN

Tuesday, March 11, 2003, 8:00 a.m. to 3:30 p.m.

Los Alamos National Laboratory, Los Alamos, NM

LANL Education Programs Office TEACHER CONFERENCE (TC03)

Tuesday, March 11, 2003, 8:00 AM to 3:30 PM -- Departs from the EYH03 Registration Desk

EYH03 ADULT SPONSOR CONTACT INFORMATION

(Please type or Print clearly)

All students attending EYH03 must have an adult sponsor, *e.g.* a teacher, counselor, parent, or guardian. The purpose of the adult sponsor is to have someone to contact should a question arise as to the eligibility of the student to attend EYH03, or to recommend the student if we are forced to choose between applicants due to space limitations. *The sponsors do not have to accompany their students to EYH03.* Those adult sponsors who do plan to accompany their students to EYH03 may not attend the Student Workshops in order to give more room for student participants (barring exceptional circumstances). Instead, we have provided an adult workshop/Teacher Conference for accompanying sponsors. Space is limited, and priority will be given to one teacher per school sponsoring EYH students. Contact the Teacher Conference Coordinator Sandra Landry, 505-665-6346, landry@lanl.gov, for more information.

First Name:	Last Name:
Parent/Guardian ___ Teacher ___ Counselor ___ Other _____	
Daytime Phone:	Email (if applicable):
School Name:	
Principal's name:	School Phone:
School mailing address (or sponsor's mailing address if not teacher or counselor):	
Name(s) of Student(s) you are sponsoring *(if more than 5, please list the 5 candidates who would benefit most from EYH03 first)*:	
Other Information you'd like us to consider (*e.g.*, Special Needs):	

TC03 TEACHER CONFERENCE REGISTRATION INFORMATION

(Please type or Print clearly)

Do you plan to attend the Teacher Conference? Yes____ No____

If so, please provide the following information in addition to the Adult Sponsor Contact Information above:

Attendee's Home Telephone:_____

Are you a US citizen? Yes____ No____ (Non-US-citizens will be sent an additional form and instructions per LANL regulations.)

Funds to pay for a substitute teacher tentatively will be available: The cost of a substitute for this teacher to miss school to attend the Teacher Conference at Los Alamos National Laboratory on March 11, 2003 is $_____.

A check in this amount for this purpose should be made payable to:

Please send this form and the student registration(s) as soon as possible to:

EYH03 c/o Lisa Colletti
C-AAC, MS G740
Los Alamos National Laboratory
Los Alamos, NM 87545

TEL: 505-667-9621
FAX: 505-665-4737
EMAIL: lcolletti@lanl.gov

Please contact Lisa Colletti if you need more information about registration.
For more information on TC03 please contact the Teacher Conference Coordinator
Sandra Landry, 505-665-6346, landry@lanl.gov.
Registrations received by **February 20** receive first priority. Registrations received after that date will accepted only as space is available.

Main LAWIS/EYH03 Web Page: http://lawis.lanl.gov/EYH

TECHNICAL CAREER WORKSHOPS FOR YOUNG WOMEN

Tuesday, March 11, 2003, 8:00 a.m. to 3:30 p.m.
Los Alamos National Laboratory, Los Alamos, NM

STUDENT PARTICIPANT REGISTRATION FORM

(Please type or Print clearly)

First Name:	Last Name:	
Street Address:		
City:	State:	Zip:
Telephone:	SS# *(Due to heightened security some workshops may require a social security number):*	
School:		Grade (8th or higher):
Teacher or Adult Sponsor *(see Note on Adult Sponsor form):*		
US Citizen? Yes_____ No_____	**If No**, Country of Birth: *(Non-US-citizens will be sent an additional form and instructions per LANL regulations)*	

Please indicate your general area(s) of interest:

____ Physical Sciences ____ Biological or Medical Science

____ Math or Computer Sciences ____ Don't Know ____ Other (list below)

Special Interests:

Have you attended an EYH conference in the past? (___Yes / ___No) If yes, please note workshops attended:

Special Needs or Accommodations, Dietary Preferences, or Other Information you would like us to consider:

My child is in at least 8th grade and has my permission to attend Expanding Your Horizons. I (___do/___do not) give my permission for her to use public transportation if necessary to attend the workshops. I (___do/___do not) give my permission for her to be photographed for publicity purposes. In the event of any emergency while my child is attending EYH, I (___do/___do not) give my permission for her to receive emergency medical treatment and care. ***Registrations must be signed by a Parent or Guardian to be considered. If your child needs special assistance (e.g. wheelchair access), please be sure it is indicated above.***

Parent or Guardian *(please print name)*:	Parent or Guardian signature:	Daytime phone in case of an emergency:
Alternate emergency contact:		
Name	Daytime telephone	Relationship to EYH participant

Please give this form to your adult sponsor, or send directly to:

EYH03 c/o Lisa Colletti
C-AAC, MS G740
Los Alamos National Laboratory
Los Alamos, NM 87545

TEL: 505-667-9621
FAX: 505-665-4737
EMAIL: lcolletti@lanl.gov

Registrations received by **February 20** receive first priority. Registrations received after that date will accepted only as space is available.

Main LAWIS/EYH03 Web Page: http://lawis.lanl.gov/EYH03