

Preliminary Program



Semiconductor Environmental, Safety &
Health Association Annual Symposium
April 2-6 – Wyndham Palm Springs &
Palm Springs Convention Center
Palm Springs, California

Mission Statement

SESHA is the world's most respected and widely recognized organization dedicated to communication and education concerning environmental, health and safety (EH&S) issues relating to the electronics and high technology industries.

SESHA is an advocate for the integration and continuous improvement of all EH&S disciplines. We stimulate and communicate ideals and practices that enhance EH&S effectiveness in the high technology workplace and surrounding communities. SESHHA openly discusses EH&S challenges and aggressively seeks to meet them.

We promote the evolution of new environmental, health, safety and hazards management technologies, and practices to enhance the competence and status of our members within their professions.

Products and services of the SESHHA include: publications, academic programs, communication networks and conferences. These products are relied upon and quoted as authoritative, relevant and timely. Through these established lines of communication, the SESHHA provides a framework which encourages the sharing of safety, health and environmental information.

SESHA thereby assists electronics and related high technology companies in becoming exemplary corporate citizens.



Meeting Highlights and General Information

2-7

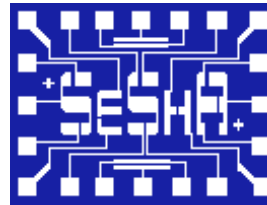
Plan your schedule with the Week-At-A-Glance. Learn about the keynote speaker and see what SESH A has planned.



Technical Program

8-10

SESHA '02 provides comprehensive coverage of semiconductor EH&S and management issues. There will be over 60 presentations that discuss state of the art information and research trends.



Professional Development Courses (PDC)

11-15

Choose from a variety of top notch PDC's offered on Tuesday, April 2. ABIH & BCSP points have been applied for, for all of the courses.



Forms

16-17

Hotel Reservation Form and SESH A Conference Registration Form.

Meeting Highlight

WEEK-AT-A-GLANCE

TUESDAY, APRIL 2

8:00 AM–5:00 PM—Professional Development Courses

8:30 AM–3:00 PM—Student Scholarship Paper Presentations

3:00–6:00 PM—Conference Registration

WEDNESDAY, APRIL 3



6:30 AM—Morning Training Run

7:30 AM–4:00 PM—Conference Registration

8:15 AM—Continental Breakfast before the

Keynote Forum

8:30 AM–Noon—Keynote Forum

Noon–1:00 PM—Exhibitor Luncheon

Noon–3:30 PM—Exhibit Hall Open

1:00–4:30 PM—Concurrent Sessions

4:30–5:30 PM—Roundtable Discussions

6:00–8:00 PM—Welcome Reception/Everyone's Invited

THURSDAY, APRIL 4

6:30 AM—Morning Training Run

8:00 AM–3:00 PM—Conference Registration

8:30 AM–4:30 PM—Concurrent Sessions

9:00 AM–5:00 PM—Exhibit Hall Open

4:30–5:30 PM—Roundtable Discussions

FRIDAY, APRIL 5

6:30 AM—5K Race

8:00 AM–Noon—Conference Registration

8:30 AM–1:00 PM—Concurrent Sessions

9:00 AM–Noon—Exhibit Hall Open

1:30 PM—Golf Tournament

2002 EXHIBITORS

Advanced Tech Solutions

ATMI

ATS

BOC Edwards

Clayton Group Services

Composites USA

Detronics

Drager Safety

EarthTech

EHS2

Electro-Test Inc

Enviro Safetech

EORM

Fab Tech

Hitachi America

Holiday Industries

Industrial Hygiene News

Kappler USA

Kurt J. Lesker

Mark Systems

Matheson Trigas

MegTec

MKS Instrument

MSA

Noveon/Ausimont (BF Goodrich)

Pacific Rim Safety Alliance

PermAlert

Pure Aire Monitoring

Rushbrook Consultants

Scott Instruments

Securiplex

SEMI

Semiconductor Int'l

Solkatronics

Stackhouse

Takiron

URS

WorkCare

Zellweger Analytics

Zephyr Environmental





OPENING SESSION

Wednesday, April 2 8:15 AM–Noon

8:15AM Coffee & Networking

8:45 AM Welcome to SESH A and Awards Presentation. *Jeanne Yturri, Zephyr Environmental, SESH A President*

- **Bioterrorism, The Threat of Biological Agents and Toxins on Industry.** *Lt. Colonel Anthony Littrell, DVM, MPH, DACVPM, U.S. Airforce, Chief, Public Health & Epidemiology Department, US Army Medical Research Institute for Infectious Diseases (USAMRIID)*
- **State of the Union for Semiconductor Research.** *Betsy Weitzman, Chief Operating Officer, International Sematech*
- **Future Environmental Challenges for the Semiconductor Industry.** *David J. Hayes, Partner, Latham & Watkins; former Deputy Secretary of the Department of Interior*

Noon Adjourn for Exhibitor-Sponsored Lunch in Exhibit Hall

SESHA 2002 ROUNDTABLES

Wednesday, April 2 4:30-5:30 PM

Roundtable A – Sierra Room

Using E Technologies to Enhance EHS Program Performance (Exhibits and Demonstrations)

Roundtable B – Pasadena Room

Code Developments and the Potential Impacts (ICC, UFC, NFPA 318)

Roundtable C – Ventura Room

Environmental Regulatory Development Issues

Thursday, April 4 4:30-5:30 PM

Roundtable D – Sierra Room

Managing EHS with Fewer Resources

Roundtable E – Pasadena Room

SERF Meeting

Roundtable F – Ventura Room

Compound Semiconductor Abatement Technology Development

Interested in joining the list of exhibitors? Contact Lori Strong at SESH A headquarters 703-790-1745 or LStrong@BurkInc.com



Meeting Highlights

Tuesday

PROFESSIONAL DEVELOPMENT COURSES

SESHA will offer a variety of full and 1/2 day courses for continuing education credits and professional development. See course descriptions, page 11, for details.

STUDENT SCHOLARSHIP PAPER PRESENTATIONS

SESHA's Scholarship Committee is pleased to invite all conference registrants to attend the Scholarship Technical Papers Session. SESHAs scholarship recipients will present papers to fulfill requirements of the scholarship award. Presentations will be held from **8:30 AM-3:00 PM**.

Wednesday EXHIBITOR HOSTED LUNCHEON

Come meet representatives of suppliers, manufacturers and

consultants within our industry at SESHAs Exhibitor Appreciation Luncheon. This activity begins at **Noon**, so come to the exhibit hall and show your support to our exhibitors and enjoy lunch while you stroll through the exhibits.

SESHA WELCOME RECEPTION

Come one, come all! SESHAs will once again host this event to kick off conference activities. The party takes place at the Wyndham, and promises to be fun for all ages. The fun begins at **6:00 PM**. Everyone's invited!

Wednesday-Thursday

MORNING TRAINING RUN

Get ready for the 5K race on Friday by participating in the training runs. Course maps will be available at the Conference registration desk. Training runs will be at **6:30 AM**.

Friday 5K RACE

The race will begin at **6:30 AM**. Free T-shirts will be given to all participants.

GOLF TOURNAMENT

SESHA will host a golf tournament at a well known Palm Springs golf course. The format will be a four player team scramble with a shotgun start. The tournament fee will be posted as soon as details are finalized. In addition, each golfer will receive a bag of gifts donated from various exhibitors, a SESHAs '02 golf towel, and a chance to win first, second and third place team prizes.

You will be asked to provide your handicap or average score; and you will be able to name partners you would like to be paired with; otherwise, the tournament chairs will make up foursomes of equal ability.



Please plan on participating at the SESHHA '02 Golf Tournament. It is sure to be a fun event! The tournament will begin at **1:30 PM**.

Interested in sponsoring this or any other event? Call Lori Strong at SESHHA Headquarters or email: LStrong@BurkInc.com

Don't Forget This Date!

March 1

Deadline for Special Conference Registration Rates and Hotel Rates. Send in your forms by the deadline for the best prices!

What SESHHA Attendees Have to Say:

Environmental and Occupational Risk Management, Inc. (EORM) has been an active participant in SESHHA (formerly SSA) since 1990. In our 11-year history with SESHHA, we continue to see value in our involvement with the Annual Symposium and Exhibition. We have found it to be a valuable forum for exceptional education programs, a perfect platform for networking, and the opportunity to market our EHS Management consulting services to high technology industry experts.

*Christelle Flahaux
EORM, Inc.*

**Visit our Web Page at
WWW.seshaonline.Org**

General Information

TRANSPORTATION

HOW TO GET TO THE SSHA ANNUAL SYMPOSIUM & EXHIBITION

All SSHA Sessions, courses and the exhibition will take place at the Wyndham Palm Springs Resort and adjoining Palm Springs Convention Center.

AIR TRAVEL

Three airports, LAX and San Diego (SAN) and Palm Springs (PSP), serve Palm Springs.

United Airlines is offering a 5% discount off any United or United Express published fare, including First Class, in effect when the tickets are purchased subject to all applicable restrictions, or a 10% discount off applicable BUA, or like, fares in effect when tickets are purchased 7 days in advance, the reservation are made in "M" class of service and utilizing the MTGUA Unique Fare Basis Code, to all attendees of the SSHA Annual Symposium, available 3 days pre and 3 days post symposium dates of April 2-5, 2002. This special offer applies to travel in the US, Canada and Puerto Rico. United's

convenient schedule and discounted fares are available through United's Meeting Desk. To reserve your flight call United at (800) 521-4041. Request Meeting ID Code 557HC for the special discount. Dedicated reservationists are on duty seven days a week from 8:00 am to 10:00 pm Eastern Time.

CAR RENTAL

Hertz Rent-a-Car is offering special low car rental rates which apply one week prior to and after the dates of the meeting. All Hertz rentals include automatic transmission and unlimited free mileage. Weekly rates require a five day minimum stay.

Special Rates from Palm Springs:

Car	Daily	Weekly
Economy	\$34.99	\$159.99
Midsize	\$43.99	\$180.99
Fullsize	\$49.99	\$203.99
Premium	\$53.99	\$214.99

Call Hertz at **800-654-2240**. Request meeting CV# **02460012**

HOTEL INFORMATION

SSHA has arranged a special rate at the Wyndham Palm Springs Resort, a 700 room hotel, where Annual Symposium events will take place. All guest rooms offer an array of conveniences, including two telephones/modular jacks, hair dryer, coffee pots, remote

control color TV with cable. The hotel features an executive fitness center, outdoor swimming pools, hot tubs and tennis courts.

The Wyndham is a full service resort and is located in downtown Palm Springs. The resort is within walking distance to several restaurants.

RATES:

Single/Double \$163

Please note that this rate does not include tax.

Wyndham Palm Springs
888 Tahquitz Canyon Way
Palm Springs, CA 92262

Phone: 760-322-6000

Please call or Fax using the form on page 16. The hotel reservation cut-off date is March 1, 2002.





**Visit our Web Page at
WWW.seshaonline.org
 to view the hotlinks to our exhibitors and see
 what they have to offer!**

CANCELLATION POLICY

All conference, recreation event and PDC cancellations must be in writing and must reach the SESH A Office by April 2 to receive a refund. All refunds will be issued after the meeting and will be subject to a \$50 processing fee. Refunds will not be issued to no-shows.

EXHIBITION

- April 3-Noon-3:30 PM**
- April 4-9AM-5 PM**
- April 5-9AM-Noon**

For many of the industry professionals who attend, the



focus of the SESH A Annual Symposium is the three day exhibition. You will find state-of-the-art products and services directly relating to the safety and industrial hygiene, environmental and high technology fields on display. At the exhibition, industry leaders have a first hand opportunity to examine, talk about, and learn from the products and services on display by over 80 companies.

The Exhibitors will be hosting a variety of events throughout the week, so check your final program for further details.

To request a booth at the SESH A exhibition and/or sponsor an event, contact Lori Strong or Sue Burk at SESH A headquarters, (703) 790-1745, email: SESHA@BurkInc.com

**RESERVING SPACE FOR
 ADJUNCT MEETINGS**

If you would like to hold a meeting in conjunction with SESH A '02, please contact Lori Strong at SESH A Headquarters, 703-790-1745 or LStrong@BurkInc.com, as soon as possible. After the SESH A Committee meetings have been accommodated, space will be reserved on a first-come, first-served basis.

**PROFESSIONAL
 CERTIFICATION POINTS**

Conference attendees are eligible to receive certification maintenance points from both BCSP and ABIH. Details will be provided at the conference.

3 EASY WAYS TO REGISTER

**REGISTER ONLINE at
www.seshaonline.org –**



Online registration discount if you register by

March 1.

REGISTER BY FAX:

Fax your completed form with credit card information to (703) 790-2672 (**Purchase orders not accepted for PDC's or golf**)



OR BY MAIL: Mail your completed form with payment to:

SESHA Headquarters
 1313 Dolley Madison Blvd.
 Suite 402

McLean, VA 22101

Mail completed registration form with check, purchase order or credit card information. You are considered registered when full payment or purchase order has been received.

Technical Program

Wednesday, April 3

Leadership

1:00 pm Welcoming/
Opening. *Lonnie Schock,*
Intel Corporation

1:15 pm SIA Look at
ESH in the Industry. *Chuck
Fraust, Semiconductor
Industry Association*

1:45 pm ESH Leader-
ship Panel. *Facilitator:*
Tighe; Panel: Scarpace,
Connor, Maloney, Bor-
deaux, Fraust, Breein

3:00 pm Insurance
Impacts of 9/11 and
Beyond: An Insurance
Perspective. *Paul Pendolino,*
*Vice President, Division
Underwriting Manager, FM
Global*

3:30 pm Insurability
Impacts of 9/11: An Industry
Perspective Panel Discus-
sion

4:15 pm Implement-
ing ESH Information
Systems—More Than
Selecting Software. *Joanne
Schroeder, P.E., Environ-
mental Data Solutions
Group (EDSG)*

5:00 pm Wrap Up/Next
Steps

Boot Camp

Overview

*Moderator - Sharon
Fisher; TEA*

1:00 pm An Overview
of the Semiconductor Manu-
facturing Process. *R.
Benson; Factory Mutual*

3:00 pm
Semiconductor Manufac-
turing: An Introduction to Oc-
cupational Health Issues of
Processes and Hazards. *P.
Wald*

3:45 PM Effective
Training Methods. *K. Taylor*

Safety & IH

Building a Safety System for Suc- cess

*Moderator - Suzanne
Jones; Intersil*

1:00 PM Managing
Safety at Multiple Locations
Without On-site EHS Staff. *S.
Fisher*

1:45 PM How's your
Safety Management System?
A Case Study for Developing
and Implementing a SMS. *K.
Brandt*

3:00 PM Equipment
Risk Assessment Tools and
Strategies: Five Case Studies.
S. Billamoria

3:45 PM Establishing
and Implementing an Envi-
ronmental, Safety, and Health
Program for a New III-V Com-
pound Semiconductor Com-
pany. *D. Olexia*

Environmental

Contemporary Environmental Issues in the Semiconductor Industry

*Moderator - Mike
Gootch; Conexant,
Inc.*

1:00 PM Results of Sur-
veys to Evaluate the Cost and
Benefits per Employee of
Adopting An EMS. *L.
McHugh*

1:45 PM Chemical Use
Restrictions. *T. Higgs*

3:00 PM Assessing the
Relative Global Warming Po-
tentials of Various Activities in
a Microelectronics Semicon-
ductor Fabrication Plant
(Fab). *D. Seif*

3:45 PM Managing
Fluorine Emissions at Semi-
conductor Fabrication Facili-
ties. *M. Smylie*

SESHA '02 Annual Symposium Co- Chairs:

Bernie Frist; EORM
Mike Zimmermann; Texas
Instruments/ISMT

Safety & Industrial Hygiene Co-Chairs:

Suzanne Jones; Intersil
David Bartko; AON Risk Services

Boot Camp Co-Chairs:

Amanda Gonzales; Advanced Micro
Devices
Miriam Vaughn; Advanced Micro
Devices

Environmental Co-Chairs:

Jeff Williams; Department of
Defense
Marty Gothberg; Applied Materials

Management Co-Chairs:

Jeff Lequia; IR/Hexfet
Terry Maloney; Advanced Micro
Devices

Professional Development Courses (PDC) Co-Chairs:

Bob Biaconi; National Semicon-
ductor
Andy McIntyre; EORM

Roundtable Co-Chairs:

Dennis Curran; Locus Technologies
Sarah Gibson; Motorola



Thursday, April 4

Management

Challenging the Status Quo

Moderator - Joe Richard; Raytheon

8:30 AM Using Intranet Technology to Enable ESH Initiatives. *J. Bruner*

9:15 AM Learn from the mistakes of others ...*R. Barnes*

10:30 AM A Dedicated Website Makes a More Effective EHS Department. *H. McCarrick*

11:15 AM Total Cost Assessment Methodology. *D. Turton*

Developing Goals and Objectives

Moderator - Ray Piantanida; AON

1:00 pm Managing Organizational and Individual Progress and Achievement. *S. Schneider, T. Maloney*

1:45 pm Integrated EH&S Objectives and Targets: A Focus on Performance and Cost Improvements. *M. Thomas*

3:00 pm Achieving Sustaining World Class Safety Performance: Effective Leadership. *L. Schock*

3:45 pm Developing EHS Goals. *R. Weigand*

Boot Camp

IH & Safety

Moderator - Christie Lotspeich; Texas Instruments

8:30 AM Current Perspectives in Industrial Hygiene: Microelectronics Manufacturing. *E. Aton*

9:15 AM One-on-One to High Fives: Five Easy Steps to Creating a Safety Culture. *R. Grieve*

10:30 AM Gas Chemical Systems. *R. Benson*

11:15 AM The Value and Application of Threshold Limit Values. *L. Birkner*

Emergency Response

Moderator - Andy Giles; GS³

1:00 PM Components of an Effective Emergency Response Team. *J. Jamali*

1:45 PM What is a HazMat Technician? *K. Taylor*

3:00 PM Emergencies: I'll Show You Mine, If You'll Show Me Yours. *J. Rodstein*

3:45 PM Emerging Issues: The EHS Professional and Weapons of Mass Destruction. *E. Aton*

Safety & IH

Industrial Hygiene/Toxicology

Moderator - Robert Bianconi; National Semiconductor

8:30 AM The Toxicology of Gases and Vapors Used in Semiconductor Fabrication Operations. *S. Patrash*

9:15 AM Laser Safety in Semiconductor Applications. *J. Jamali*

10:30 AM Assessments of Semiconductor Products Containing Lasers to Meet CDRH and ANSI Criteria – A Case Study for a CMP Tool. *J. Visty*

11:15 AM How to Characterize Hazards in Emerging Technologies? The GaN Epitaxy Example. *N. Proust*

Equipment Safety: Local & Global

Moderator - Jay Rodstein; Honeywell Labs

1:00 PM Identifying and Managing Risk in the Global Corporate Environment. *M. Kleinsteuber*

1:45 PM Subatmospheric Gas Systems and the Fire Codes — Trying to Fit A Round Cylinder Into a Square Book. *S. Stookey*

3:00 PM Environmental, Safety and Health Benefits of Using Sub-Atmospheric Hydride Sources for MOCVD. *M. Raynor*

3:45 PM NFPA Update and Impact to the Industry (NFPA 318 & NFPA 5000). *R. Benson*

Environmental

Water: The Environmental Pressure for the Next Decade

Moderator - Tom Cooper; Intel

8:30 AM Water, Water Everywhere and Not a Drop to Use. *A. Rimer*

9:15 AM Environmental Indicators: Benchmarking Performance. *R. Sheinbein*

10:30 AM Water Conservation in Semiconductor Manufacturing. *R. Chiarello*

11:15 AM Water Conservation Round Table. *T. Cooper*

Fab Decommissioning & Chemical Management

Moderator - Kimberly Brandt; Zephyr

1:00 PM Fab Decommissioning: The Outline of One Approach. *C. Stadlman*

1:45 PM Ensuring the Safe Movement of Used Semiconductor Manufacturing Equipment. *R. Barnes*

3:00 PM Chemical Tracking and Environmental Reporting Via the Web - A Working Solution. *L. Gibbs*

3:45 PM Chemical Management Services: A Case Study in the Semiconductor Industry. *D. Whaley*

Friday, April 5

Management

Terrorism and Workplace Violence: The New Reality

Moderator - Jeff Lequia; IR/Hexjet

8:30 AM Adding Terrorism to Your Contingency Plan. *K. Taylor*

9:15 AM An Effective Approach to Business Continuity Planning. *R. Crockett*

10:30 AM Presentation to be determined.

11:15 AM Presentation to be determined.

Boot Camp

Environmental

Moderator - Hillary Matthews; Axcelis

8:30 AM Alphabet Soup: An Overview of Environmental Regulations. *J. Williams*

9:15 AM Energy Conservation Studies at International SEMATECH. *R. Malella*

10:30 AM A New Look at Life Cycle Assessment for the Semiconductor Industry. *H. Ho*

11:15 AM Selected Environmental Auditing Methodologies. *J. Williams*

Safety & IH

Managing Your Ergonomic and Property Risks

Moderator - Kim Smeija; Intel

8:30 AM 300mm Fab Risk Challenges. *V. DeGiorgio*

9:15 AM Making It Stick: A Systematic Approach For A Sustainable Ergonomics Process. *Rostykus, Walt Humantech Inc.*

10:30 AM Process Safety Risk Analysis Techniques for the Electronics Industry. *J. VanOmmeren*

11:15 AM Fire Risk Assessment and Mitigation. *R. Benson*

Environmental

EHS Considerations of Compound Semiconductors and New Silicon Processes

Moderator - Karl Olander; ATMI

8:30 AM Making Sub-atmospheric Delivery Work for Compound Semiconductor Growth. *J. Rodstein*

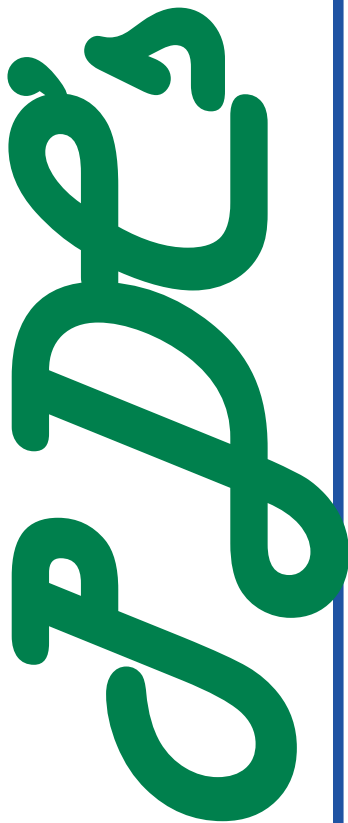
9:15 AM Presentation to be determined.

10:30 AM Ammonia for Blue LED Production, from Supply to Abatement. *J. Van Gompel*

11:15 AM Emissions Resulting from the Deposition and Etching of the Low k Dielectrics. *W. Worth*

Interested in joining the list of exhibitors? Contact Lori Strong at SSHA headquarters 703-790-1745 or LStrong@BurkInc.com





SESHA will once again offer a variety of full and half day Professional Development Courses. All courses are pending the approval of ABIH and BCSP for continuing education credits. Certificates will be sent out after the conference for all approved courses.

Tuesday, April 2

8:00 AM-5:00 PM

PDC 1 - Building Credibility for your EH&S Strategies to Increase Value to your Organization

Course Coordinator:
Dave Tighe; Bovo-Tighe, LLC

In the current business climate EH&S organizations are under fire to reduce budgets and lower headcount. Managers under pressure sometimes pare programs down to little more than maintenance and selective compliance. The EH&S organization itself is sometimes perceived as a cost center with little connection to the fundamental business results. There is a very real opportunity within most organizations to change that perception and the actual value of the EH&S program. This workshop will show you how.

The Workshop: This session is a hands-on, highly interactive work-

shop in which you will learn *and apply* practical approaches to change the value your EH&S program brings to your organization. Key areas covered include:

- Designing an operational plan that directly aligns with the business strategy
- Creating an identity as a value producer
- Building a client-focused service mindset within your team
- Communicating your value proposition to your clients
- Focusing your efforts where they matter most
- Applying a simple 5-step model to build a high-performance organization
- Building and using effective metrics
- Aligning your business processes to demonstrate your value proposition.

8:00 AM-5:00 PM

PDC 2-OHSAS 18001 – Implementing a Health & Safety Management System

Course Coordinator:
Kerrie Romanow; EORM

Many companies throughout the world are implementing environmental management systems in accordance

with the ISO 14001 standard and are eager to integrate their health and safety programs into the same system. Published in 1999, OHSAS 18001 is a new international specification for Occupational Health and Safety Management Systems corresponding to BS 8800. OHSAS 18001 requires the site to demonstrate that its systems for managing health and safety not only comply with all legal requirements, but also pro-actively seek to eliminate or minimize risks to employees with a commitment to continual improvement in Health and Safety performance. In its structure and approach, OHSAS is very similar to ISO 14001, and can be integrated effectively into existing ISO 14001 and/or ISO 9000 systems by companies, large and small, to help manage their overall EHS responsibilities. Topics include:

- Basics of a health and safety management system
- OHSAS 18001 components
- Methodology for health and safety aspect identification
- Process of conducting a risk assessment of OH&S management in the organization
- Integration opportunities of an environ-

mental, health and safety management system within a business process

- Auditing requirements
- Registration process for either or both ISO 14001/ OHSAS 18001
- Components of an implementation plan
- Benefits and costs of implementation

This one-day course is designed for environmental managers, health and safety managers, industrial hygienists, safety professionals, operations managers, human resources managers, quality managers and others interested in this emerging standard.

8:00 AM-5:00 PM

PDC 3 - Effective Training Methods and Approaches

Course Coordinators: Kiley Taylor; Zephyr Environmental

This full day course is designed to develop the knowledge and presentation skills needed to deliver effective, dynamic training that ensures the transfer of knowledge. There are five major course topics.

1. Reviewing the process of learning including the needs of the adult learner, and different training methods.
2. Planning effective training covers developing learning objectives and training materials.
3. Delivering effective training addresses communication techniques and interactive learning practices.
4. Evaluating training effectiveness delves into providing feedback.
5. Implementing the topics covered in the course by preparing and delivering a brief presentation. Due to the highly interactive nature of the course participation is limited to twenty students.

8:00 AM-5:00 PM

PDC 4 - Practical Approaches to Decontamination & Decommissioning.

Course Coordinators: C. Stadlman, M. T. Dorris, T. Reichelt, A. Wilson; Intel Corporation

Uncertain times in the high tech industry have left many companies facing the reality of downsizing and closing facilities. Consolidating or closing a manufacturing area on schedule, under budget, and in a safe, healthy and environmentally sound manner can be a challenging undertaking. Disposition of all equipment and chemicals, reducing regulatory burden and exposure after closure, and leaving the site in a 'moth ball' state that can be easily maintained by a minimal team are considerations for a facility during decommissioning. Together, a good understanding of the closure scale and scope, a good multidiscipline core team of EHS personnel, proper planning, and regular interaction with management can carry the facility through the project. This course is designed to provide a practical approach to successfully defining, planning for, and executing the decontamination and decommissioning of a plant.

The Workshop: This course is a combination of lecture sessions and hands-on case study work in a group setting. Teams will work together to creatively develop solutions to defining, planning, and executing the decontamination and decommissioning of a site.

Key Focus Areas:

- **Definition of the Scope**
 - Analyzing the current situation
 - Defining desired end state

-Determining potential legal implications

-Assessing risks

- **Project Management and Technical Issues**

- Developing Core Team,
- Reducing regulatory burden,
- Decontamination of areas/equipment,
- Record keeping,
- Expecting the unexpected,
- Mitigating risks
- Keeping management informed

- **Graceful Exit**

- Documenting final status of site,
- Completing final environmental Due Diligence
- Finalizing permit and regulatory status
- Maintaining site during "moth ball" phase

8:00 AM-5:00 PM

PDC 5 - Fire & Building Code Development and Impacts Facing High Technology Industries

Course Coordinators: Reinhard Hanselka; South Bay Piping Industry

This course will address the complex issues of compliance and conformance with ever changing codes. This course will give students insight into the reasons for the regulatory provisions and compliance methodologies.

8:00 AM-5:00 PM

PDC 6 - Incident Preparedness: The Complete Approach

How to Minimize the Potential and Mitigate the Actual

Course Coordinators: Al Brown, Rushbrook Consultants, Glasgow, Scotland and Bob Barnes, Robert B. Barnes Associates, Scotts Valley, Arizona

Every day of the year, somewhere in the world there is a business interruption incident in a semiconductor manufacturing facility. The severity of such an incident is dependent upon the advance preparation that has been completed by the facility to insure that the incident is minor and the return to full production is accomplished as quickly as possible. Incidents include fires, liquid or gas releases, service interruption (e.g. power, water, bulk gases)

Such preparation includes:

- Risk assessments of the entire facility and its manufacturing equipment
- A thorough understanding of the business interruption issues relevant to the specific facility
- Effective planning for business continuity, including incident recovery alternatives

This full-day workshop will use actual case studies to illustrate both successful and unsuccessful approaches to incident preparedness and recovery. The workshop facilitation team includes internationally recognized experts in the critical issues of incident preparedness, each of whom has first-hand operational experience in the topics being discussed.

8:00 AM-5:00 PM

PDC 7- EH&S Considerations in Compound Semiconductors

Course Coordinator: Andy McIntyre; EORM

Multiple presenters from Industry, both Users and Equipment Suppliers. Focus on EHS issues/solutions in key functional areas of crystal growth, epitaxial deposition and fabrication. Additionally, this PDC will include a section on current

issues/trends with materials waste recycling

8:00 AM-Noon

PDC 8 - OSHA 300 Record keeping – Successful Implementation and Lessons Learned.

Course Coordinator: Don Lassiter; Occupational Health Systems (OHS)

New OSHA recordkeeping regulations went into effect on January 1, 2002. In addition to new recording forms (i.e., OSHA 300, 301 and 300A) there are many changes involved with the new OSHA recordkeeping requirements and procedures, including case identification, recording procedures, employee privacy protection, work-related hearing loss (delayed), employee access to records, counting of days away from work and restriction/job transfer etc. All EHS professionals who are responsible for their company/facility OSHA recordkeeping need to understand the program changes - some of which are not readily available. In addition, during the next few months it is expected that there will be modifications of certain of the rule's requirements (e.g., enforcement was recently delayed until May, 2002).

In addition to providing participants with the knowledge which will enable them to manage their facility/company recordkeeping program with confidence, the course will also provide participants with approaches for performing benchmarking and risk assessment using their OSHA records. Demonstrations will be provided to show how EHS staff can develop effective presentations for upper management using their OSHA data.

1:00-5:00 PM

PDC 9 - Terrorism: Effective Preparation and Response

Course Coordinators: Brian Sherin; ESHconnect

This professional development course is designed to increase the depth of knowledge of emergency planners and responders who may be confronted with the challenges of terrorism at industrial facilities, specifically semiconductor operations. The focus will be on nuclear, biological, and chemical (NBC) terrorism incidents. We will conduct two tabletop exercises on responding to a NBC Terrorist incident at a semiconductor facility (e.g., a chemical incident and a bioterrorism incident).

Following its completion, the participants should be able to:

- Review recent history involving the use of these weapons
- Understanding the threat
- Recognize the signs and symptoms of NBC exposures (frequently these will be the first indication of an attack)
- Know what methods of self-protection should be used in response to a terrorist incident involving NBC to employ
- Understand the implications of the emergency scene as a crime scene

8:00 AM-Noon

PDC 10 - Safety Considerations for Ion Implanters

Course Coordinator: Steven Roberge; Axcelis Technologies, Inc

Ion implanters have several inherent hazards associated with

their operation and maintenance. Although manufacturers of this equipment include numerous safety features into the design, the potential for serious injury or incident remains, particularly in situations where design safety features are overridden or recommended safe operating procedures are not followed. Although some incidences of equipment malfunction may, on their own, have the potential to result in a safety incident, these occurrences are much more likely to occur during maintenance or service operations where personal interaction with the hazards of the equipment can be much more direct. Ion implanters have five main categories of hazard associated with them. These are hazardous materials, high voltage, radiation (ionizing and non-ionizing), mechanical systems, and ergonomic issues. In some instances, these categories can interact with each other to raise hazards that may not be readily recognizable to personnel. This course will discuss specifics regarding each category and differentiate between operational and maintenance and service related issues. Suggested safe operating procedures are also discussed. Some examples of the specific topics discussed are: suggested preventative maintenance safety precautions, potential for cryo pump related explosions, potential for fires, high voltage fields, lockout / tagout for ion implanters, and suggested interlock bypass safety precautions.

1:00-5:00 PM

PDC 11 - Semiconductor Facility Exhaust Management and Air Abatement Equipment

Course Coordinator: Mike Sherer; ATMI

This course will review exhaust management in the fab, including exhaust types and issues that can be encountered. The reasons for using and selecting point-of-use (POU) abatement (also known as exhaust conditioners) will be discussed, including different technologies available. Design and operation of centralized scrubbers and centralized volatile organic compound (VOC) abatement devices will be presented, including the "do's" and "do not's." The semiconductor industry Maximum Achievable Control Technology (MACT) EPA regulation status and content will be reviewed (draft expected by end of 2001 and final expected by May, 2002). Course attendees will be asked for additional similar subject matter that they would like to be covered prior to course.

Letters of Invitation

On request the SESHA Headquarters will be pleased to send an official letter of invitation to participants who wish to attend but are not submitting an abstract. These letters are intended to assist participants in obtaining travel funds or visa. They do not constitute a commitment on the part of the conference to provide financial support.

For complete abstracts, lists of authors and their affiliations visit our website at www.seshaonline.org

EFSA Hotel Reservation Form

Wyndham Palm Springs Hotel

888 Tahquitz Canyon Way

Palm Springs, CA 92262

Phone: 760-322-6000 or 1-800-Wyndham; FAX: 760-416-2900

\$163.00 single/double

Reservation Deadline: MARCH 1, 2002

- ◆ Reservations received after March 1, 2002 will be on a space and rate available basis. Rates are good for 3 days before and after the convention dates upon availability.
- ◆ Check In Time: 3:00 PM – Check Out Time: Noon
- ◆ Room rates are subject to the current 12.55% room tax and \$.89 utility tax.
- ◆ Family plan is at no additional charge for children 18 years and younger, using existing bedding.
- ◆ Reservation must be received and guaranteed by March 1, 2002 with one of the following:
 - An enclosed check or money order covering the first night's stay to include 12.55% room tax and \$.89 utility tax.
Amount of Check/Money Order \$ _____
 - or
 - Major credit card with an expiration date and an authorized signature.
- ◆ Deposits will be refunded only if cancellation notification is received at least 48 hours (2 days) prior to arrival.

Name: _____

Address: _____

City: _____ State/Country: _____ ZIP/Postal Code: _____

Phone: _____ FAX: _____

Sharing Room With: _____

Arrival Date: _____ Time: _____ Depart. Date: _____ Time: _____

King Bed Smoking 2 Double Beds Smoking No Preference

King Bed Non-Smoking 2 Double Beds Non-Smoking

Accommodations for the Disabled: The Wyndham Palm Springs, in compliance with the American Disabilities Act, has equipment and services available. Please inform them of your needs prior to arrival.

Credit Card: American Express MasterCard VISA Carte Blanche Diners Club
 Discover

Cardholder's Name: _____ Exp. Date: _____

Credit Card # _____

Cardholder's Signature _____

Please mail or FAX your reservation to the address/FAX number above

SESHA '02 Annual Symposium Registration Form

April 2-6 - Palm Springs, California

PLEASE PRINT CLEARLY

Preregistration Deadline: Friday, March 1

Name: (For Badge) _____ Member ID# _____

Job Title: _____

Company: (For Badge) (Limit to 15 Characters and Spaces) _____

Mailing Address: (Include Full Name of Business Affiliation) _____

City: _____ State/Country: _____ ZIP/Postal Code: _____

Phone: _____ FAX: _____ Email: _____

Special Needs _____

	Preregistration	After 3-1-02
<input type="checkbox"/> SESHA Member	\$495.00	\$550.00
<input type="checkbox"/> Non-Member*	\$570.00	\$625.00
<input type="checkbox"/> Federal/State Government Employee Rate	\$250.00	\$250.00
<input type="checkbox"/> Full-Time Student	\$ 75.00	\$ 75.00
<input type="checkbox"/> SESHA Member plus 2002 dues payment	\$570.00	\$625.00

*Includes a 1 year SESHA Membership and Journal Subscription - available to **first time members ONLY**

Professional Development Courses – Tuesday, April 2

<input type="checkbox"/> PDC 1-Building Credibility for your EH&S Strategies to Increase Value to your Organization. <i>D. Tighe</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 2-OHSAS 18001 - Implementing a Health & Safety Management System. <i>K. Romanow</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 3-Effective Training Methods and Approaches <i>K. Taylor</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 4-Practical Approaches to Decontamination & Decommissioning. <i>A. Wilson/C. Stadlman</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 5- Fire & Building Code Development and Impacts Facing the High Technology Industry. <i>R. Hanselka</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 6- Incident Preparedness: The Complete Approach How to Minimize the Potential and Mitigate the Actual. <i>A. Brown</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 7- EH&S Considerations in Compound Semiconductors. <i>A. McIntyre</i> (Full Day)	\$250.00	\$250.00
<input type="checkbox"/> PDC 8- OSHA 300 Record keeping - Successful Implementation and Lessons Learned. <i>D. Lassiter</i> (Half Day/AM)	\$125.00	\$125.00
<input type="checkbox"/> PDC 9-Terrorism: Effective Preparation and Response. <i>B. Sherin</i> (Half Day/PM)	\$125.00	\$125.00
<input type="checkbox"/> PDC 10-Safety Considerations for Ion Implanters. <i>S. Roberge</i> (Half Day/AM)	\$125.00	\$125.00
<input type="checkbox"/> PDC 11- Semiconductor Facility Exhaust Management and Air Abatement Equipment. <i>M. Sherer</i> (Half Day/PM)	\$125.00	\$125.00

Additional Activities

<input type="checkbox"/> 5K Run	No Charge	No Charge
<input type="checkbox"/> Golf Tournament	\$75.00	\$75.00

PAYMENT – American Express VISA MasterCard

Total Amount Due _____

Card # _____ Exp Date _____

Cardholder Name _____ Cardholder Signature _____

OR make check payable and forward to: SESHA, 1313 Dolley Madison Blvd., Suite 402, McLean, VA 22101