



Semiconductor Safety Association

Scholarship Program 2000-2001

For Graduate Degree Candidates In the Field of Occupational Safety & Health, Industrial Hygiene, Environmental Science and Risk Control

Purpose

The purpose of the Scholarship Program is to assure semiconductor manufacturers and related high technology industries, worldwide, a continuing source of academically qualified professionals in the fields of Occupational Safety & Health, Industrial Hygiene, Environmental Science and Risk Control, with emphasis on the challenging environment of the high technology workplace.

Policy

It is the policy of the Semiconductor Safety Association (SSA) to award scholarships to graduate students in SSA approved programs* pursuing careers in the fields of Occupational Safety & Health, Industrial Hygiene, Environmental Science and Risk Control. Scholarships will be applied to offset the educational expenses of qualified graduate students approved by the SSA Scholarship Committee.

Objectives

o To influence the academic emphasis and interest of students pursuing advanced degrees in Occupational Safety, Health, Environmental Science and Risk Control so that they may develop specific knowledge of the processes and challenges

presented in the high technology and semiconductor industry workplace.

- o To develop a continuing base of educationally qualified professionals suitable for positions of employment and leadership within high technology industry.
- o To promote development of Occupational Safety, Health, Environmental Science and Risk Control curricula by universities at the graduate level, which will emphasize expertise in those areas specific to the high technology industry.
- o To foster expanded research in topics relevant to high technology industries.

Specific Actions Required

1. **The SSA approved university or college is requested to post this bulletin in a prominent place designated for such matters, and otherwise promote the program to the general knowledge of graduate students in studies of Occupational Safety & Health, Environmental Sciences and Risk Control;**

* see approved programs appended to this document

2. **The student must submit** a typed SSA Scholarship application using the attached form or facsimile. The applicant must agree to perform a problem solving and/or research project resulting in a scholarly paper on a subject approved by the SSA Scholarship Committee;
3. **The University agrees to promote** the SSA Scholarship Program among qualified students, and to offer direct supervision and oversight of students' activities in pursuit of work-study projects, and/or the writing of scholarly papers on subjects approved by the SSA Scholarship Committee.
4. **Proposal Submittal.** Applications and topic selections must be received by close of business on November 10, 2000 at 5:00pm EST. Mail to: **SSA Scholarship Committee, 1313 Dolley Madison Blvd., Suite 402, McLean, VA 22101.**
5. **Suggested Resources.** Assistance from SSA Members is available. Call SSA for information at 703-790-1745.

In the work of preparing for or writing the SSA Scholarship Paper, students are encouraged to contact SSA Members, by using the latest edition of the SSA Directory as a list of contacts. In this way, plant tours can be arranged; internships and work study programs discussed, and other information helpful in writing the paper may be obtained. It is probable that SSA Members employed by companies in the geographical area of the student's university would be most readily available for assistance.

6. **A time line matrix**, outlining the SSA Scholarship Year, giving dates for paper submission, is shown in Section 8 of Definitions.
7. **The papers will be evaluated** for timely and state-of-the-art applicability to the problems and processes in high technology industry. A paper or papers will be selected as *best* from each of the categories of those submitted for presentation to the full conference audience by the student at the Annual SSA International Conference and Exhibit, held in New Orleans, LA on April 10-13, 2001.

Personnel Recruiting at the Conference

In past years, many of the graduate students attending the SSA Conference received lucrative employment offers at the Conference or shortly thereafter.

Recruiters from many of the world's largest semiconductor, electronics, and high tech companies attend the SSA International Conference. **Students should not plan interviews on the day of student paper presentations.**

Definitions

1. The Scholarship Candidate

A candidate must possess a four-year bachelor's degree from an accredited institution. Also, the candidate must be enrolled in a full time academic, or approved work-study program of the university's graduate school, in the curricula described above. The candidate is selected by the committee from the list of applicants.

2. Technical/Research Paper

The writing of a technical and/or research paper is a mandatory requirement of the SSA Scholarship Program. Students should select a topic relevant to the High Tech & Semiconductor Industry.

The length of the paper should be no more than 20 pages including tables, text and appendices, and shall be double-spaced. Accurate spelling and correct grammar is expected.

The goal of the paper is to make a credible contribution to the knowledge and literature in the health and safety field. The ideal paper would be suitable for daily application and reference by SSA professionals in their work.

It is required that the SSA Scholarship Paper will not be the same paper submitted to the university as the master's degree *thesis* or doctoral *dissertation*, if such theses are required by the university for completion of work toward the degree. The SSA Paper is to be a practical working document suitable for immediate application by the industry. Papers should be submitted to the student's instructor or advisor for technical and copy editing prior to submission to the SSA. **The final copy submitted to SSA shall have an electronic copy on diskette.**

3. Selection of Applicants

Each fall, the Scholarship Committee meets to review the applications and to award Scholarships to selected applicants. Paper topics are also approved at this time.

4. Financial Awards

Upon selection of a candidate by the Scholarship Committee, the recipient is notified through the university. The letter of notification will include a check, in the amount of \$500.00, payable to the university or student for application toward educational expenses. Upon the scholarship recipient's completion of an acceptable paper, the student will be awarded a second check for \$1,000.00. The top-ranked paper in each category will be awarded an additional \$2,000.00. The second-ranked paper in each category will be awarded an additional \$1,000.00.

Timely submission of the paper, according to the date specified in the time line matrix is mandatory for receipt of the second check for \$1,000.00. All papers must be postmarked to SSA Headquarters no later than March 9, 2001 at 5:00pm EST.

5. Judging of Papers and Presentations

The Scholarship Committee meets each spring to select the best paper from those submitted. The selection criteria for the winning papers include relevance, technical merit, creativity, quality of writing, documentation, grammar and usage. Verbal presentations will be judged at the SSA annual conference. A recommended speaker guide is available on the SSA website, www.semiconductorsafety.org.

6. Conference Attendance by Students

All scholarship recipients are expected to attend the Annual SSA International Conference and Exhibit, held in New Orleans, LA on April 10-13, 2001. Other interested students are also invited. Conference registration fee of \$75.00 is required, however, hotel room costs and regular conference meals, plus continental breakfasts daily, are paid by the SSA. All additional meals, private rooms, transportation costs and miscellaneous expenses are the student's responsibility. **Tuesday, April 10, 2001 has been set for Student Paper Presentations.** All SSA Scholarship recipients are expected to prepare slides and graphics, and to present their scholarship papers during Scholarship Paper Presentation Day. This opportunity to address a group of your peers from several other universities, and to have your presentation heard by a distinguished group of educators and industry professionals is an unprecedented experience. **Students should not plan interviews on the day of student paper presentations**

7. Presentation of Winning Paper(s)

Writer(s) of the top ranked paper(s) in each category will also present their paper during the conference opening session

8. The Time Line Matrix: The SSA Year

Date	Schedule or Due Date
August 28, 2000	A
September 8, 2000	B
November 10, 2000	C
November 17, 2000	D
December 8, 2000	E,F
March 9, 2001	G
March 16, 2001	H
March 20, 2001	I
April 10, 2001	J,K,L,M
April 11, 2001	J

Events

(The number of each of these events is found on the time line matrix.)

- A. **Summer Committee Meeting.** Universities are evaluated for addition to the Program. Program and number of scholarships are fixed for the coming academic year.
- B. **Information and application packets** are mailed to approved universities.
- C. **SSA must receive** completed applications by this date.
- D. **Academic Committee to receive all papers by this date**
- E. **SSA to receive final evaluation and acceptance of papers this date**
- F. **Award of \$500.00.** Check is sent to the student or university for application toward educational expenses.
- G. **Papers must be received** no later than this date.
- H. **Academic Committee to receive final papers by this date.**
- I. **Evaluation of Papers by the Scholarship Committee.** Criteria are: Professional approach to the subject, adherence to originally selected topic, neatness, correctness of spelling and grammar, and applicability of papers to the daily work of SSA Members. Evaluation back to SSA this date
- J. **Award of \$1,000.00** presented at the Conference.
- K. **Selection of best paper(s)** by the Committee at the Conference – April 10, 2001.
- L. **SSA Annual Conference - New Orleans, LA on April 10-13, 2001**
- M. **Student Paper Presentation Day.** Students awarded scholarships for their papers should be prepared to speak before 50-100 people and illustrate their presentations with slides, overheads or graphics. Professionally prepared slides and graphic materials are not required. **April 10, 2001**
- N. Winning papers will be presented at the Opening Session of the Conference on April 11, 2001 by the author.

Specific Application Instructions

Attach a brief (approximately two pages) description of the Scholarship Paper that you propose to submit. The

proposal should outline your topic, objectives and basic reasons for topic selection to include:

- o Background of topic; purpose of the study;
- o Perceived relevance of topic to high technology industry;
- o Relationship of topic to your current studies;
- o Description of your general approach for addressing topic; and
- o Additional industry resources you may need to successfully address topic.

Current Topic Areas & Contacts

Attached are categories that the Academic Committee considers important to the high technology industry. For convenience, SSA is providing several technical mentors that could be contacted for further information.

Examples of Past Paper Topics and Titles are available from your faculty advisor.

Semiconductor Safety Association

Scholarship Committee

1313 Dolley Madison Blvd., Suite 402

McLean, VA 22101

Phone: (703)790-1745; FAX:(703)790-2672

Email: SSA@BurkInc.com

www.semiconductorsafety.org

2000 SSA Approved Academic Programs and Advisors

University of Arizona – Industrial Hygiene – Dr. Cliff Crutchfield

California Polytechnic State University, San Luis Obispo – Environmental Engineering – Dr. Sam Vigil

University of California, Berkeley – Industrial Hygiene – Dr. Kathy Hammond

Harvard University – Public Health – Dr. Jim Stewart

University of Minnesota, Duluth – Industrial and Technical Studies - Dr. Bernie DeRubeis

Murray State University – Dr. David Kraemer

University of Texas, Houston – Public Health - Dr. Lawrence Whitehead

University of Wisconsin, Stout – Dr. John Olson

SSA Scholarship
Possible Topic Areas and Contacts

Design for the Environment

- Laurie Beu (Motorola) 512-933-5457; Email: cwbh30@email.sps.mot.com
- John Cox (HOHA/EBI) 617-868-4321; Email: JCFromND@aol.com
- Greg Lund (SEMATECH) 512-356-7539; Email: Greg_Lund@Sematech.org
- Gayle Woodside (IBM) 512-327-1138; Email: gwoodsid@us.ibm.com

ISO 14000

- John Cox (HOHA/EBI) 617-868-4321; Email: JCFromND@aol.com
- Ron Scholtz (ADI) 408-562-7218; Email: ron.scholtz@analog.com
- Gayle Woodside (IBM) 512-327-1138; Email: gwoodsid@us.ibm.com

S-2 Update - Interpretation of New Standard

- Aimee Bordeaux (SEMI) 480-943-6939; Email: abordeaux@semi.org
- Rich Kaplan (Applied Materials) 408-563-5292; Email: rich_kaplan@amat.com
- Rick Koski (LAM Research) 510-572-1019; Email: rick.koski@lamrc.com
- Greg Lund (SEMATECH) 512-356-7539; Email: Greg_Lund@Sematech.org

Energy & Water Conservation

- Phyllis Pei (SEMATECH) 512-356-3872; Email: Phyllis_pei@intl.sematech.org

Process Gas Monitoring - New Equipment Review - Hands On Instruction

- David Ham (Xerox) 650-812-4048; Email: ham@parc.xerox.com
- David Rainer (NC State University) 919-515-4238; Email: david_rainer@ncsu.edu
- Ron Scholtz (ADI) 408-562-7218; Email: ron.scholtz@analog.com

Ergonomics

- Suzanne Gallo (Hewlett-Packard) 408-447-4809
- Julia Stephens (EORM) 408-321-2850

Electric Safety

- Cliff Oliver (University of CA) 702-256-3608; Email: oliver_clifford_e@lanl.gov

Specific IH Topics

- Liz Aton 314-454-8245; Email: EAton@imgate.wustl.edu
- David Baldwin (Agilent Technologies) 408-345-8084; Email: dbaldwin@agilent.com
- Jim Stewart (IDT) 408-944-2014
- Mike Williams (HSRMS) 408-749-1150; Email: mikewehs@interstice.com

Specific Medical Topics

- Liz Aton 314-454-8245; Email: EAton@imgate.wustl.edu
- Nelson Avery (U of Texas) 409-747-0971; Email: navery@utmb.edu
- Michael Fischman (Intel) 510-283-2366; Email: michael_fischmann@ccm.sc.intel.com
- Alexis Funk (SEMATECH) 512-356-3019; Email: alexis.funk@sematech.org

Specific Environmental Topics

- Jenni Carter (EORM) 408-822-8100; Email: carterj@eorm.com
- Chuck Faust
- Ron Scholtz (ADI) 408-562-7218; Email: ron.scholtz@analog.com
- Jeanne Yturri (Zephyr Envir Corp) 512-329-5544; Email: jyturri@zephyrenv.com

Fire Protection

- Roger Benson (Factory Mutual) 707-794-3052; Email: roger.benson@fmglobal.com
- Dennis Collins (Intel) 503-642-8403
- Terry Maloney (Adv Micro Dev) 408-749-2056; Email: terry.maloney@amd.com

