NOTES FROM THE 2003 PRESIDENT

Throughout my career, serving as a volunteer with professional safety and health organizations has been a career-broadening experience. I started out as one of the grunts doing the “heavy lifting” as it were, e.g., selling raffle tickets to raise money, helping to set-up tables and chairs before meetings, and serving on committees. These experiences gave me more confidence as a safety, health and environmental (SHE) professional and constantly added professional resources to my network.

While growing in my work as a SHE professional, I also grew in my volunteer efforts. This included running for officer positions within the professional SHE associations on a local level and eventually gaining national elected office with some of the parent organizations.

Other career-expanding experiences happened along the way. I was asked to serve on some other SHE professional boards, allowing me to grow more as a volunteer with professional safety and health organizations has been a career-broadening experience. I started out as one of the grunts doing the “heavy lifting” as it were, e.g., selling raffle tickets to raise money, helping to set-up tables and chairs before meetings, and serving on committees. These experiences gave me more confidence as a safety, health and environmental (SHE) professional and constantly added professional resources to my network.

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(Continued on Page 2)
I urge each of you to volunteer. Try it. You’ll like it. You never know the doors that may open because of your efforts. These opened doors could be a career opportunity for yourself or someone else may choose to join the SHE profession as a result of your being there. The CCHEST Board is always looking for qualified, hard-working SHE professionals to join our team. If you want to help keep your profession strong by serving your peers and future generations of SHE professionals, please send your resume to CCHEST’s Executive Director and let us know you are interested in serving on the CCHEST Board.

There are a number of new issues discussed in this newsletter. One of the most exciting for the profession is the creation of a Safety Trained Supervisor (STS) certification for general industry. Another involves CCHEST helping the U.S. Navy standardize the construction specifications for safety certifications on their construction projects throughout the world.

In closing, I would like to congratulate our Executive Director, career field mentor and friend, Dr. Roger Brauer, on his selection to the Safety and Health Hall of Fame International (SHHOFI). Roger will be inducted into the Hall of Fame on September 9, 2003 during the National Safety Council Congress and Exposition in Chicago. If you are planning to attend the Congress and would like to purchase tickets for the dinner and the induction ceremony, please contact the SHHOFI office at 1-800-552-7744, extension 106.

Please do your part to keep America safe!

(Volunteers, continued)

certification. The two establishing Boards, the American Board of Industrial Hygiene and the Board of Certified Safety Professionals, each fill a position from among their sitting directors.

2003 CCHEST BOARD OF DIRECTORS

President
Patrick Conroy, OHST, CHST
(CCHEST-elected)

Vice President
Kenneth Sheffield, OHST
(ABIH-elected)

Secretary-Treasurer
Adrian Hertog, OHST, CSP
(BCSP-elected)

Past President
Thomas Ryan, OHST, CHST, STS-Construction, CSP
(BCSP-elected)

David Gioiello, Jr., CIH, CSP
(ABIH Board Representative)

Robert Milligan, CHST, OHST, STS-Construction
(CCHEST-elected)

Robert Ross, OHST, CSP, ARM
(ABIH-elected)

Linda Sennett
(Public Director)

Henry Smahlik, CSP, CIH
(BCSP Board Representative)

(President’s Note, continued)

professional and to expand my network of peer resources. As I approach the end of my 34th year as a SHE professional, I continue to volunteer at all levels.

By far, my most rewarding volunteer position has been serving on the CCHEST Board and interacting with the hard-working CCHEST staff in Savoy, Illinois. Helping to raise the prestige of the SHE profession through the development of SHE certifications that are attainable by all education and experience levels of our profession is gratifying work. There is no greater legacy than the perpetuation of one’s profession for future generations.

In September 2002, CCHEST’s Board of Directors elected its officers for 2003. Officers include: Patrick Conroy, OHST, CHST as President; Kenneth D. Sheffield, OHST as Vice-President; and Adrian Hertog, OHST as Secretary/Treasurer. Both the President and Vice-President positions are one-year terms while the Secretary/Treasurer serves for two years. Mr. Hertog is serving his second year as Secretary/Treasurer. All members of the CCHEST Board serve without pay and volunteer their time.

Pat Conroy was the CCHEST Vice-President in 2002. This year, he serves as President and begins his second three-year term. Mr. Conroy is currently Vice President of Risk Control Service at King & Neel, Inc. and resides in Waipahu, Hawaii. He has served on the Board since 2000 as a CCHEST-elected director and holds the OHST and CHST.

Ken Sheffield completes his first three-year term in 2003, elected by the American Board of Industrial Hygiene (ABIH) in 2001. He is a Health, Safety, and Environmental Supervisor at Solvay Pharmaceuticals supporting the research and development facilities at the corporate office in Marietta, Georgia and the manufacturing operations in Baudette, Minnesota. Mr. Sheffield has been in the health and safety field for over 15 years with initial training in the U.S. Air Force. He is currently working toward a Chemistry degree at Shorter College with completion expected in 2004. Mr. Sheffield achieved the OHST in 1998. He resides in Kennesaw, Georgia.

Adrian Hertog begins his second three-year term on the CCHEST Board this year. He is the Safety Manager (Kansas Division) for the Burlington Northern Santa Fe Railway and resides in Overland Park, Kansas. Mr. Hertog holds an associate of arts from the University of Minnesota. He has been a professional member of the American Society of
Safety Engineers (ASSE) since 1989. Mr. Hertog has served on the CCHEST Board since 2000 as a BCSP-elected director. He obtained the OHST in 1986 and the CSP in 1990.

Also at the September 2002 CCHEST meeting, Robert A. Ross, CSP, OHST, ARM was elected as a new director. He was elected by ABIH. Mr. Ross will serve a three-year term of office on the CCHEST Board and can go on to serve a second three-year term if re-elected.

Robert Ross is a Senior Loss Prevention Consultant for Public Risk Management of Florida. He has over 17 years of experience in safety and health, having worked in industrial hygiene, loss control, and environmental safety and health. Mr. Ross holds a B.A. from Western Illinois University and an A.S. from the U.S. Air Force School of Aerospace Medicine. He is a professional member of ASSE and is a member of the Southwest Florida Safety Council. Mr. Ross has held the OHST since 1992 and the CSP since 1993. He resides in Fort Myers, Florida.

**CALCULATOR POLICY FOR OHST AND CHST EXAMINATIONS TO CHANGE**

On January 1, 2004, the calculator policy relating to the OHST and CHST examinations will change. Beginning on this date, those taking these examinations will be allowed to bring one or two calculators into the examination; any calculator brought into the examination must be from the brands and models listed above.

Different versions of the brands and models will be permitted. For example, the TI-30Xa and hp 30s calculators will be allowed, as they are versions of the permitted brands and models.

The centers that administer CCHEST examinations, Prometric Testing Centers (www.prometric.com), were having difficulty consistently enforcing the current calculator policy that was based on a calculator’s physical characteristics. Therefore, the policy was revised to include a variety of calculators that test-takers could choose from. Starting January 1, brands and models of calculators different from those listed in this new calculator policy will not be permitted in CCHEST examinations.

**NEW CALCULATOR POLICY**

<table>
<thead>
<tr>
<th>Brand</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texas Instruments</td>
<td>TI-30, TI-34, TI-35, TI-36</td>
</tr>
<tr>
<td>Casio</td>
<td>FX-115, FX-250, FX-260, FX-300</td>
</tr>
<tr>
<td>Hewlett Packard</td>
<td>hp 9, hp 10, hp 12, hp 30</td>
</tr>
</tbody>
</table>

**ACCREDITED/RECOGNIZED CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Area</th>
<th>Certification</th>
<th>Accrediting/Recognizing Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>H&amp;S</td>
<td>Occupational Health and Safety Technologist (OHST)</td>
<td>CESB, NSSB</td>
</tr>
<tr>
<td>H&amp;S</td>
<td>Construction Health and Safety Technician (CHST)</td>
<td>CESB, NSSB</td>
</tr>
<tr>
<td>H&amp;S</td>
<td>Safety Trained Supervisor in Construction (STS-Constr)</td>
<td>CESB, NSSB, NCCA, ANSI/ISO/IEC</td>
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<tr>
<td>S</td>
<td>Certified Safety Professional (CSP)</td>
<td>CESB</td>
</tr>
<tr>
<td>IH</td>
<td>Certified Industrial Hygienist (CIH)</td>
<td>CESB</td>
</tr>
<tr>
<td>IH</td>
<td>Certified Associate Industrial Hygienist (CAIH)</td>
<td>CESB</td>
</tr>
<tr>
<td>H</td>
<td>Certified Health Physicist (CHP)</td>
<td>CESB</td>
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<tr>
<td>E</td>
<td>Qualified Environmental Professional (QEP)</td>
<td>CESB</td>
</tr>
<tr>
<td>E</td>
<td>Environmental Professional Intern</td>
<td>CESB</td>
</tr>
<tr>
<td>E</td>
<td>Certified Hazardous Materials Manager (CHMM)</td>
<td>CESB</td>
</tr>
<tr>
<td>E</td>
<td>Diplomate in Environmental Engineering</td>
<td>CESB</td>
</tr>
<tr>
<td>S</td>
<td>Certified Crane Operator (CCO)</td>
<td>NCCA</td>
</tr>
<tr>
<td>H</td>
<td>Certified Occupational Health Nurse (COHN)</td>
<td>ABNS</td>
</tr>
<tr>
<td>H</td>
<td>Certified Occupational Health Nurse-S (COHN-S)</td>
<td>ABNS</td>
</tr>
<tr>
<td>H</td>
<td>Occupational Health Physician</td>
<td>ABMS</td>
</tr>
</tbody>
</table>

**CCHEST TO CONTINUE PURSUING NATIONAL ACCREDITATIONS AND RECOGNITIONS**

Currently, each of the three certifications offered by CCHEST holds national accreditation and recognition by organizations setting standards for peer certifications (as opposed to state licenses). There are approximately 225 designations or titles in the U.S. that one can obtain in safety, industrial hygiene, environment, and ergonomics. The three CCHEST certifications are among fifteen holding accreditation or recognition.

A priority for CCHEST is to demonstrate compliance with the highest possible standards for certifications in an orderly process as financial considerations permit. Some of the accreditations are expensive to pursue and retain and funds must be available in the CCHEST budget for these activities.

Accredited and recognized credentials are listed in the chart below.
A summary of the accreditation and recognition organizations (and CCHEST activity with each organization) follows.

**CESB.** In 2002, CCHEST achieved accreditation from the Council of Engineering and Scientific Specialty Boards ([www.cesb.org](http://www.cesb.org)). The current accreditation continues through 2006. This organization grew out of a national symposium held in the 1980s on credentials in the engineering fields other than state licensing.

**NSSB.** Late last year, CCHEST applied for and achieved recognition for being in compliance with certification standards established by the National Skill Standards Board ([www.nssb.org](http://www.nssb.org)). It adopted many of the standards published by the National Commission for Certifying Agencies (NCCA). NSSB was a federal agency operating under the domain of the Commerce Department and the Department of Labor. It was established to assist in getting U.S. workers competitive in the world economy. The agency did not receive funds to continue this year and is working to reorganize itself as a private organization and continue its work with various industry and labor groups.

CCHEST is proud to be recognized for having achieved the NSSB standards without comment by the reviewers. In fact the reviewers were quite complementary about the quality of the CCHEST programs and operations. Certifications from a number of organizations did not achieve recognition status from NSSB when they applied.

**NCCA.** The National Commission for Certifying Agencies ([www.ncca.org/ncca/ncca.html](http://www.ncca.org/ncca/ncca.html)) began in the 1970s through a grant from the U.S. Department of Education. Its mission is to set standards for certifications and award accreditation to those certifications that apply and meet the standards.

Initially, NCCA focused on certifications in the allied health fields that were not covered by state licensing, but quickly expanded to any certification in any field at any level. Over the last three years, NCCA completed a major review and upgrade to its standards. At press time, CCHEST is in the middle of preparing applications for accreditation by NCCA for the OHST, CHST, and STS-Construction certifications. CCHEST should receive word before the end of 2003 regarding its accreditation applications.

**ANSI/ISO/IEC.** Recently, a group of over 20 countries established a standard for certifications of persons. The standard is ISO/IEC 17024, *Certification Bodies Operating a Personnel Certification Program*. The United States is the first country to implement the standard and the American National Standards Institute is the implementing agency.

The Board of Certified Safety Professionals was invited to be among the initial group of certifying bodies in any field in the U.S. to participate in the standard compliance process. On June 5, 2003, BCSP received notice that it achieved accreditation and was one of the first five organizations in any field to achieve compliance with this standard. This standard is the most comprehensive and expensive of any available and will be the last one that CCHEST will pursue.

**Medical and Nursing Specialty Boards.** In the medical field, states issue licenses to physicians, nurses and other practitioners that allow them to practice. Generally, professions licensed by a state offer services directly to the public or design public facilities as part of the responsibility to “protect the health, safety and welfare of the public.”

Peer certification organizations handle credentialing for medical and nursing specialization. The organizations setting standards for the specialty certifications are the American Board of Medical Specialties (ABMS) and the American Board of Nursing Specialties (ABNS). Their standards are similar to those of NCCA, CESB, NSSB, and ANSI/ISO.

**CCHEST PURSUES RECOGNITION IN NAVY CONSTRUCTION CONTRACTS**

For several years, the U.S. Navy Facilities Command (NAVFAC) has included certification as a requirement for safety officers of contractors that hold Navy construction contracts. Recently, Patrick Conroy, the current CCHEST President, had an opportunity to speak with the commander of this U.S. Navy agency about their policy. With input from others, Mr. Conroy developed and submitted a draft decision table to the NAVFAC Commander.

This table helps to establish what kinds of construction work and risks should be considered in determining the level of safety and health knowledge needed and the corresponding certification that would cover such situations. Included in the decision matrix table are both the Safety Trained Supervisor (STS) in Construction and CHST certifications along with the OHST, CSP, and CIH.

The goal of the decision table is to assist Navy personnel in consistently identifying whether certification is critical for work included in a contract and, if so, what certification and experience for a safety officer should be considered. Results of the recommendations have not yet been determined.

**COMMUNITY COLLEGES OFFERING ASSOCIATE DEGREES IN SAFETY, HEALTH, AND ENVIRONMENT**

Graduates of safety and health degrees at community colleges will qualify for the OHST and CHST certifications, depending on the program accreditation for the degree and the experience presented with an application. Program accreditation considers whether a degree program prepares students effectively for
a particular field of practice. Institutional accreditation considers whether the entire school organization is an effective higher education institution.

For the CHST, an applicant with an associate degree in safety and health must also have one year of construction experience to qualify for the CHST examination.

For the OHST, part or all of the five years of experience in safety and health required to qualify for the OHST examination can be waived for those holding an associate degree in safety and health. The table below shows the portion of the experience that is waived:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Exp. Waived</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate degree in safety and health</td>
<td>4 of the 5 yrs</td>
</tr>
<tr>
<td>ABET-accredited associate degree in safety and health</td>
<td>All of the 5 yrs</td>
</tr>
</tbody>
</table>

Two associate degrees in safety and health now hold accreditation from the American Society for Engineering Education (ASEE) and the Accreditation Board for Engineering and Technology (ABET). These commissions handle degree accreditation for a variety of technical types of degrees, including degrees in safety and health. The two programs are:

- **Associate Degree in Applied Science in Occupational Health and Safety**
  Central Maine Technical College
  Auburn, ME

- **Associate of Applied Science Degree in Occupational Safety & Health**
  Trinidad State Junior College
  Trinidad, CO

CCHEST is compiling a list of associate degrees in safety, health, environment, fire protection, and related fields from accredited colleges which meet the new standard for acceptable U.S. degrees. The list on this page includes the degrees identified to date. If you are aware of others, please contact CCHEST.

### NEW STANDARD FOR ACCEPTING U.S. DEGREES

Individuals applying for the OHST and CHST can use college degrees as qualifications. College degrees also earn credit toward meeting Certification Maintenance (CM) requirements. With a wide range of schools offering degrees either locally or online, CCHEST has established a standard for determining whether a U.S. degree is accepted for credit.

The CCHEST Board recently established the following standard for acceptance of degrees from U.S. colleges and universities:

*The degree must be awarded by a college or university holding institutional*
accreditation from a body recognized by the U.S. Department of Education or by the Council for Higher Education Accreditation (CHEA) with institutional accrediting authority and the degree must have been awarded during the period for which institutional accreditation was in place.

CHEA is a voluntary organization that sets standards for bodies offering institutional and professional program accreditations to schools. The U.S. Department of Education also sets standards and recognizes accreditation bodies that meet its standards.

For a list of accredited colleges and universities holding accreditation from CHEA recognized bodies, visit the CHEA web site and search the “institutions” database at www.chea.org/institutions/search.cfm.

The state of Oregon has a law that prohibits individuals from using a degree granted by a “diploma mill.” The state established the Office of Degree Authorization within the Oregon Student Assistance Commission to evaluate degree programs. Their web site at www.osac.state.or.us/oda/unaccredited.html lists unaccredited degrees.

CCHEST FRAMES FOR CERTIFICATES NOW AVAILABLE

CCHEST is working with Framing Success to offer OHST, CHST, and STS-Construction certificate holder mats and frames. Every mat has the CCHEST name and logo in gold-leaf embossing. Certificate holders can choose from five styles (the Elite frame is shown bottom left). Frames and mats are delivered ready for easy do-it-yourself certificate insertion. More information and an order form can be viewed and downloaded from www.cchest.org.

USE OF THE CCHEST LOGO

At the March 2003 CCHEST Board meeting, a policy was approved concerning the CCHEST logo and all three program logos (OHST, CHST, and STS-Construction). CCHEST’s Executive Director can grant permission to use the CCHEST organizational logo or any of the CCHEST product logos in publications. Requests to use the logo(s) are required and must be received in writing. Approval is restricted to limited, one-time use.

The Executive Director can also issue permission to employers who have submitted written requests to use any of the CCHEST program logos on special plaques or certificates identifying employees who have achieved certification. Approval is once again limited.

Remember, CCHEST’s organizational or program logos cannot be used on resumes, business cards, web sites, letterhead, etc. Such use may infer that CCHEST endorses a company or individual.

CCHEST ONLINE

CCHEST’s web site offers a variety of information for certificate holders and candidates. Information on all three certifications and online application forms are available at www.cchest.org. OHST and CHST application forms are offered in PDF format.

There is much more information available online including CCHEST’s operating procedures, code of ethics, strategic plan, charter, and history. You can also read past newsletters and news releases as well as access a directory of CCHEST certificate holders. This directory is updated daily and lists OHSTs, CHSTs, and STSs by city and state. Information on members of the CCHEST Board of Directors are also found online along with CCHEST staff members.

WRITE QUESTIONS FOR CM CREDIT

OHSTs and CHSTs can earn Certification Maintenance (CM) points for writing questions or “items” for CCHEST. OHST, CHST, and STS-Construction certifications are developed from the knowledge and experience of safety practitioners in practice. These practitioners are content experts for examinations.

CCHEST needs draft items in all subject and task areas and for all three examinations. OHSTs and CHSTs can earn 1 CM point for five acceptable stand-alone examination items. Examination item development is an efficient and inexpensive way to maintain certification. And there is no limit to the number of points you can obtain through item development.

Did you know that you can also earn CM points for writing items for other nationally accredited certifications? Earn 1 CM point for five stand-alone items.

The CCHEST Examination Item Writers Manual is designed to assist OHSTs and CHSTs develop items. It is available in PDF format on the web site (www.cchest.org) or obtainable by contacting the CCHEST Examination Department. This manual contains complete instructions and the necessary forms for preparing draft examination items.

NEW CM OPPORTUNITIES

At the March 2003 CCHEST Board Meeting, the Board approved the following opportunities for certificate holders to gain CM credit.
OHSTs and CHSTs can now earn 0.3 CM point for completing a book review for the American Conference of Governmental Industrial Hygienists (ACGIH).

Also, readership quizzes now offer opportunities to earn credit. Quizzes in peer-reviewed journals earn 0.015 point per question. ACGIH’s Applied Occupational and Environmental Hygiene Journal operates a quiz program. General safety and health magazine quizzes earn 0.01 points per question. Compliance magazine operates a program.

OHST EXAMINATION TO CHANGE IN 2004

CCHEST announces that the OHST examination will change next year. These changes are the result of a comprehensive validation study conducted in 2002 and completed in 2003. This study is a requirement of CESB accreditation.

The new OHST examination blueprint is function-based instead of subject-based. The blueprint starts with the functions and tasks practitioners do followed by the knowledge and skills needed for those functions and tasks. It remains a 200 multiple-choice item, computer-delivered examination. The blueprint changes do not alter the qualifications candidates must meet to be eligible for the OHST. The technical report outlining the changes can be downloaded from the CCHEST web site at www.cchest.org.

Later this year, CCHEST will announce a date on its web site when the new OHST examination blueprint will go into effect. Candidates who purchase an examination before this changeover date, will take the old OHST examination. Candidates who purchase an examination on or after this date, will take the examination based on the new blueprint.

CCHEST PARTNERS WITH THE INSURANCE INDUSTRY ON THE OHST

For approximately the last two years, CCHEST has worked with the Alliance of American Insurance (AAI) to find a process that can replace the Associate in Loss Control Management (ALCM) designation that was discontinued. Part of the issue was finding an examination that covers the responsibilities of loss control representatives for insurance companies. Loss control representatives help insurance companies and their clients reduce worker compensation claims through hazard identification and control and related services. Preliminary discussions suggested that the OHST examination may fill this need.

During 2002, member companies of AAI and the American Insurance Association (AIA) participated in validation studies for the OHST. Staff knowledgeable in loss control functions from insurance companies affiliated with both of these organizations participated with OHSTs in a panel that defined the functions, tasks, knowledge, and skills that make up OHST practice. Psychometricians from the CCHEST psychometric contractor, CASTLE Worldwide of Raleigh, NC, led the job analysis workshop. During the workshop, the panel compared the roles of OHSTs to that of entry-level loss control personnel.

CASTLE Worldwide staff then converted the panel results to a survey form. The form went to about 300 OHSTs and about 300 people who work in loss control representative positions. The results showed that entry-level loss control people have essentially the same knowledge and skills required of OHSTs and that loss control people may not perform all of the OHST functions and tasks, but must know them. An insurance company is not engaged in exactly the same activities as a safety and health practitioner is for an employer, but the insurance company works with an employer client to accomplish the same activities.

The results of the study are documented in a technical report put together by CCHEST in March 2003. The results will form the examination blueprint for an updated edition of the OHST examination. Watch the web site for new developments.

Currently, representatives of the insurance companies that are affiliated with AAI and AIA are assisting CCHEST to develop examination questions for the updated edition of the OHST examination. CCHEST will also be working with both organizations to establish new qualifications for loss control representatives in a number of states. The goal is to explain to the state insurance agencies that govern the qualifications for people serving as loss control representatives that the study clearly defined the roles of loss control representatives. Also, the updated OHST examination covers the knowledge and skill required for such roles.

It may take awhile to affect the qualifications for loss control representatives that are already in place within states. However, use of the OHST examination will provide a valid and reliable means that states can use in updating their qualifications to replace the discontinued ALCM designation that had been in place for many years.

CERTIFICATE PROGRAMS EARNING OHST CREDIT CONTINUE TO EXPAND

A number of academic and private certificate training programs have applied to CCHEST for recognition for OHST waiver of experience credit. The list of programs continues to increase and includes:

- Auburn University, College of Engineering - Occupational Safety and Ergonomics Certificate (1 1/4 yr)
- Central Maine Technical College - Occupational Health and Safety Technologist Certification (1 1/4 yr)
- Brown University, Department of Occupational Health and Safety - Certificate in Occupational Health and Safety (1 yr)
- Brown University, College of Health and Human Services - Certificate in Environmental Health (1 yr)
- California State University, Northridge - Certificate in Environmental Health and Safety (1 yr)
- Cincinnati College of Allied Health - Certificate in Environmental Health and Safety (1 yr)
- City University of New York, Baruch College - Certificate in Environmental Health and Safety (1 yr)
- Colorado State University, College of Environmental Science and Policy - Certificate in Environmental Health and Safety (1 yr)
- Eastern Michigan University - Certificate in Environmental Health and Safety (1 yr)
- Florida Atlantic University - Certificate in Environmental Health and Safety (1 yr)
- Georgia State University - Certificate in Environmental Health and Safety (1 yr)
- Harvard University, Graduate School of Public Health - Certificate in Environmental Health and Safety (1 yr)
- Indiana University, School of Public Health - Certificate in Environmental Health and Safety (1 yr)
- Iowa State University, College of Environmental Science and Policy - Certificate in Environmental Health and Safety (1 yr)
- Kansas State University, Department of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Louisiana State University, College of Environmental Science and Policy - Certificate in Environmental Health and Safety (1 yr)
- Massachusetts Institute of Technology, Department of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Michigan State University, Department of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Missouri State University - Certificate in Environmental Health and Safety (1 yr)
- North Carolina State University, College of Environmental Science and Policy - Certificate in Environmental Health and Safety (1 yr)
- Ohio State University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Pennsylvania State University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of California, Los Angeles - Certificate in Environmental Health and Safety (1 yr)
- University of Florida, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Georgia, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Illinois, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Kentucky, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Maryland, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Michigan, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Minnesota, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Missouri, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Nebraska, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of North Carolina, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Oklahoma, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Pennsylvania, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of South Carolina, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Tennessee, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Texas, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Virginia, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- University of Wisconsin, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Washington State University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- West Virginia University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Western Michigan University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Wright State University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
- Xavier University, College of Environmental Health and Safety - Certificate in Environmental Health and Safety (1 yr)
Eastern Iowa Community College District - Environmental Compliance and Technology Certificate (3/4 yr)

Eastern Michigan University - Specialist Certificate in Industrial Health and Safety (1/4 yr) and Specialist Certificate in Construction Health and Safety (1/4 yr)

Lakeshore Technical College - Industrial Health and Safety, Advanced Technical Certificate (1/2 yr)

Las Positas College - Certificate of Completion in Occupational Safety and Health (1/2 yr)

Northern Illinois University - Construction Safety Coordinator Certificate (1/4 yr) and Construction Safety Manager Certificate (1/2 yr)

Safety Council of the Louisiana Capital Area - Occupational Health and Safety Diploma, Career Path I (1/4 yr), Occupational Health and Safety Diploma, Career Path II (1/4 yr), Both Diplomas (1/2 yr)

University of North Carolina, NC Occupational Safety and Health Education & Research Center - Industrial Hygiene Technician (1/4 yr) and Safety Technician (1/4 yr)

University of Washington, OSHA Region X Training Institute Education Center - Safety and Health Specialist Certificate Program (1/4 yr)

The study ensures the examination’s subject material is relevant to current practice.

The result of this study, completed in late 2002, is a function-based STS-Construction examination blueprint similar in structure and content to the existing examination blueprint. The examination will consist of 100 multiple-choice items and remains computer-delivered. The blueprint changes do not alter the qualifications candidates must meet to take the STS-Construction examination.

The examination is scheduled to change on September 2, 2003. Candidates whose applications are received by CCHEST before September 2, 2003, will take the old STS-Construction examination. Candidates whose applications are received by CCHEST on or after the changeover date, will take the examination based on the new blueprint.

**STS TO EXPAND TO GENERAL INDUSTRY**

Based on significant interest from various industries, the CCHEST Board approved expanding the Safety Trained Supervisor certification to industries falling under the OSHA General Industry Standards. The expansion will occur in increments by specific industry. The initial STS program covered the construction industry. Funds were available in the 2003 budget to begin the expansion process.

One of the most important activities in developing the expanded program is completion of the job analysis study. This procedure defines what people do in practice and the knowledge and skills needed. The study results will define what is covered on the expanded STS examinations.

The concept for the expanded program is to define the core competencies that apply to any industry and the specific competencies that apply to specific industry groups and combine both into industry specific examinations. Each examination will cover the core elements and an industry-specific area.

A job analysis workshop has been scheduled for late August 2003 to define the core competencies. Participants from approximately 15 different industries with interest in the expanded STS program will define the functions and tasks that typical Safety Trained Supervisors perform and the knowledge and skills needed for each function and task. All lead to the Safety Trained Supervisor designation.

Then, industry specific panels will define the competencies relevant to their respective industries. The first industry specific panel will cover the petro-chemical industry. This group is also scheduled to meet in late August. CCHEST will establish the schedule for other industries as interest is determined and funds are available. Some likely industry groups are manufacturing and health care.

The STS-Construction program has proven valuable for a number of employers. See “The STS Benefits Productivity” on page 9.

**STS SPONSORING ORGANIZATIONS RECEIVE PLAQUES**

CCHEST awarded participation plaques to employers using the STS-Construction certification during 2002. The plaques recognize the number of people achieving the certification during the year. Klondyke was a new sponsor in 2002. Rust, Veco, and Washington Group continue to participate in the sponsorship program. The following companies were recognized:

- Klondyke Inc., Phoenix, AZ, 8 STS certificate holders
- Rust Construction, Birmingham, AL, 26 new STS certificate holders
- Veco Construction, Anchorage, AK, 15 new STS certificate holders
New STS-Construction certificate holders will now receive an STS sticker and patch in the packet of information they receive with their certificate. These stickers and patches consist of the red STS logo. The small-size stickers can be affixed to many items, including hard hats and lunch boxes. Patches can be sewn onto shirts or any fabric item. If you would like an STS sticker or patch, please contact CCHEST.

THE STS BENEFITS

Productivity
In February at the Construction Safety Conference in Rosemont, IL, CCHEST presented at a session entitled CCHEST: Safety Certifications for Construction. CCHEST Executive Director, Roger Brauer, and 2003 President, Pat Conroy, presented along with speakers from St. Paul Companies and Washington Group.

Washington Group International provides science, engineering, construction, operations, program-management, and development services in 15 major markets. Leaders at Washington Group have implemented certification, including the STS, into their comprehensive strategy and have noted amazing results. These include an enhanced safety culture, increased confidence in safety decisions and policies made by supervisors and managers, and improved overall productivity.

Specifically, Brad Giles, Corporate Vice-President of Environmental, Safety and Health and project manager from one WGI facility, reported that the STS helped reduce losses to zero lost-time cases for over a year and increased productivity by 15%. In addition, CCHEST has learned of other organizations that have reported similar results.

EXAMINATIONS

Certification holders in each CCHEST certification at the end of 2002.

<table>
<thead>
<tr>
<th>Certification</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHST</td>
<td>1,178</td>
</tr>
<tr>
<td>CHST</td>
<td>458</td>
</tr>
<tr>
<td>STS-Construction</td>
<td>743</td>
</tr>
</tbody>
</table>

Examination results and statistics for the OHST and CHST examinations during 2002 are summarized in the table below.

<table>
<thead>
<tr>
<th>Statistic</th>
<th>OHST</th>
<th>CHST</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Questions</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Passing Score</td>
<td>60%</td>
<td>65.5%</td>
</tr>
<tr>
<td>Average Score</td>
<td>62.01%</td>
<td>72.50%</td>
</tr>
<tr>
<td>Std Deviation</td>
<td>22.89</td>
<td>13.99</td>
</tr>
<tr>
<td>No. Candidates</td>
<td>113</td>
<td>122</td>
</tr>
<tr>
<td>Percent Passing</td>
<td>35%</td>
<td>83%</td>
</tr>
<tr>
<td>Reliability (KR20)</td>
<td>0.9342</td>
<td>0.855</td>
</tr>
<tr>
<td>Std Error of Measurement</td>
<td>6.02</td>
<td>5.33</td>
</tr>
</tbody>
</table>

2002 examination results for the STS-Construction Examination appear in the table below.

<table>
<thead>
<tr>
<th>Statistic</th>
<th>STS-Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Questions</td>
<td>75</td>
</tr>
<tr>
<td>Passing Score</td>
<td>70.10%</td>
</tr>
<tr>
<td>Average Score</td>
<td>83.96%</td>
</tr>
<tr>
<td>Std Deviation</td>
<td>5.21</td>
</tr>
<tr>
<td>No. Candidates</td>
<td>293</td>
</tr>
<tr>
<td>Percent Passing</td>
<td>99%</td>
</tr>
<tr>
<td>Reliability (KR20)</td>
<td>0.76</td>
</tr>
<tr>
<td>Std Error of Measurement</td>
<td>2.55</td>
</tr>
</tbody>
</table>

During 2002, CCHEST awarded new certifications in each program as follows:

<table>
<thead>
<tr>
<th>Certification</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHST</td>
<td>75</td>
</tr>
<tr>
<td>CHST</td>
<td>107</td>
</tr>
<tr>
<td>STS-Construction</td>
<td>289</td>
</tr>
</tbody>
</table>

Recertification

During 2002, 89 individuals holding the OHST and CHST completed their five-year Certification Maintenance cycle and were required to complete a report of recertification activities in order to retain their certification. Of those, 78 submitted reports and a portion were selected for an audit to demonstrate proof that the points claimed were actually earned. Nearly all selected for audit were able to document their activities.

Based on a sample of submitted reports, the average person earned 29.8 points compared to the 20 required for a five-year cycle.

Most of the points came from four CM categories:

- **Category 1:** Health and Safety Practice
- **Category 2:** Health and Safety Organization Memberships
- **Category 7:** Continuing Education Courses and Seminars
- **Category 6:** Professional Development Conferences

The average number of points gained from each category of activity and the percent of those participating are listed in the following table.

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. H&amp;S Practice</td>
<td>9.0</td>
<td>90%</td>
</tr>
<tr>
<td>2. Memberships</td>
<td>4.0</td>
<td>70%</td>
</tr>
<tr>
<td>3. Committees &amp; Offices</td>
<td>1.0</td>
<td>28%</td>
</tr>
<tr>
<td>4. Publications &amp; Papers</td>
<td>.06</td>
<td>6%</td>
</tr>
<tr>
<td>5. Exam Questions</td>
<td>0.0</td>
<td>0.0%</td>
</tr>
<tr>
<td>6. Conferences</td>
<td>2.0</td>
<td>62%</td>
</tr>
<tr>
<td>7. Cont Education</td>
<td>6.0</td>
<td>70%</td>
</tr>
<tr>
<td>8. College &amp; Univ Courses</td>
<td>2.0</td>
<td>20%</td>
</tr>
<tr>
<td>9. Advanced Degree</td>
<td>3.0</td>
<td>16%</td>
</tr>
<tr>
<td>10. Certifications &amp; Re-examination</td>
<td>6.0</td>
<td>28%</td>
</tr>
</tbody>
</table>
AUDITED FINANCIAL REPORT

For the sixth consecutive year, CCHEST completed the year with a net revenue. The net revenue goes toward a reserve fund. The CCHEST goal is to have a reserve fund equal to at least one half of a year’s operating budget. The reserve fund is also needed to pay for special projects, such as periodic validation studies.

The accounting firm of McGladrey & Pullen, LLP, issued an unqualified opinion on the financial statements of CCHEST. Condensed financial statements appear on these two pages.
COUNCIL ON CERTIFICATION OF HEALTH ENVIRONMENTAL AND SAFETY TECHNOLOGISTS (A JOINT VENTURE)

STATEMENTS OF CASH FLOWS
Years Ended December 31, 2002 and 2001

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Flows from Operating Activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase in unrestricted net assets</td>
<td>$12,214</td>
<td>$42,510</td>
</tr>
<tr>
<td>Adjustments to reconcile increase in unrestricted net assets to net cash provided by operating activities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>1,711</td>
<td>5,259</td>
</tr>
<tr>
<td>Change in assets and liabilities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Increase) decrease in:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>(1,453)</td>
<td>5,914</td>
</tr>
<tr>
<td>Other</td>
<td>(4,305)</td>
<td>374</td>
</tr>
<tr>
<td>Increase in:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable</td>
<td>6,885</td>
<td>23,236</td>
</tr>
<tr>
<td>Unearned revenue and exam fees</td>
<td>10,269</td>
<td>29,197</td>
</tr>
<tr>
<td>Net cash provided by operating activities</td>
<td>$25,461</td>
<td>106,430</td>
</tr>
<tr>
<td>Cash Flows from Investing Activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purchase of certificate of deposit</td>
<td>(100,000)</td>
<td></td>
</tr>
<tr>
<td>Net cash (used in) investment activities</td>
<td>(100,000)</td>
<td></td>
</tr>
<tr>
<td>Increase (decrease) in cash</td>
<td>(74,539)</td>
<td>106,430</td>
</tr>
<tr>
<td>Cash:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning</td>
<td>313,789</td>
<td>207,299</td>
</tr>
<tr>
<td>Ending</td>
<td>$239,250</td>
<td>313,789</td>
</tr>
</tbody>
</table>

See Note to Financial Statements.

COUNCIL ON CERTIFICATION OF HEALTH ENVIRONMENTAL AND SAFETY TECHNOLOGISTS (A JOINT VENTURE)

NOTES TO FINANCIAL STATEMENTS

Note 1. Nature of Organization and Significant Accounting Policies

Nature of organization:
The Council on Certification of Health, Environmental and Safety Technologists (CCHEST) is a joint venture between American Board of Industrial Hygiene, Inc. (ABHI) and Board of Certified Safety Professionals (BCSP). CCHET is a nonprofit joint venture organized to provide certification of health, environmental and safety technologists.

Significant accounting policies:
Renewal, exam and application fees: Revenue from renewal fees is recognized in the calendar year to which it applies. Unearned renewal and exam fees represent revenue applicable to future periods.

Revenue from examination fees is recognized when the examinations are given, or when the time allowed to take the exam expires.

Revenue from application fees is recognized as received.

Development costs: Examination development costs are capitalized when incurred and amortized over three years.

Use of estimates in the preparation of financial statements: The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Note 2. Concentrations of Credit Risk:
The Council maintains its cash in bank deposit accounts which, at times, may exceed federally insured limits. The Council has not experienced any losses in such accounts, and believes it is not exposed to any significant credit risk on cash.

See Note to Financial Statements.