1.1 Introducing NCHSE Leadership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Cindy LeCoq</td>
<td>NCHSE Chair, Assessment Committee Co-Chair</td>
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<tr>
<td>Phyllis Johnson</td>
<td>NCHSE Chair-Elect, Assessment Committee Co-Chair</td>
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<tr>
<td>Tara Bell</td>
<td>NCHSE Secretary, Conference Committee Chair</td>
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<tr>
<td>Clarice Morris</td>
<td>NCHSE Treasurer, Fiscal Committee Chair</td>
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<td>Nancy Allen</td>
<td>Outreach and Communications Committee Chair</td>
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<td>Carol Packard</td>
<td>Communications Committee Co-Chair</td>
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<td>Lara Morris</td>
<td>Special Projects Committee Chair</td>
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<tr>
<td>Randi Hunewill</td>
<td>Bylaws Committee Chair</td>
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<tr>
<td>Carole Stacy</td>
<td>NCHSE Executive Director</td>
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<tr>
<td>Edson Barton</td>
<td>Precision Exams Board Liaison</td>
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Welcome to the 2018 National Consortium for Health Science Education (NCHSE) Annual Meeting in historic San Antonio, Texas! The consortium is now entering its second year of the 2016 NCHSE Strategic Focus to “provide consistent high-quality educational resources”, while also promoting uniform health science education programs and standards and with your participation and help we have made great progress!

As you read the 2017 NCHSE Annual Report, you will see the many accomplishments achieved during the past year towards these goals. In addition to the highly successful Institute for Educational Excellence (IEE) conference; the National Health Science Assessment was reviewed and enhanced; the content specific stackable certificate exams were rolled out; and the NCHSE Special Projects Committee conducted interest surveys and initiated the first steps to develop the Health Science Educators Association.

As the NCHSE Executive Committee evaluated the future needs of health science education programs and examined the current trends in career and technical education, it became clear that there is an even greater need to expand and strengthen the consortium’s national outreach and to perform in the most effective and efficient means possible. Building on the past two years of strategic growth, it became evident that the organization needed restructuring to continue meeting its mission. This annual meeting will focus on the restructuring concept and with your input the consortium will continue to grow and evolve to meet the needs for national health science education programs! Thank you!

“Coming together is the beginning; keeping together is progress; working together is success!” Henry Ford

Cindy Le Coq
NCHSE Chair
The NCHSE 2017 Annual Board Meeting was held in sunny Phoenix, Arizona, February 1-2. Forty-four Board and Publishers/Resource Coalitions Members were in attendance. Meeting highlights included: an amazing HOSA presentation by Elizabeth Carnesi, 2017 HOSA National President, and Jane Shovlin, Arizona HOSA State Advisor; NCHSE future initiatives; committee updates; introduction of a teacher organization; and bylaws updates.

During 2017, the NCHSE Executive Committee began debating the need to move forward in the right direction for sustainability and future impact of the consortium. The discussion centered around the necessity to potentially restructure our organization to meet the changing needs of health science education across the country. As the education landscape continues to evolve, it is important for the National Consortium for Health Science Education be at the table when decisions are being made concerning health science and career and technical education. One consideration for this restructure would be to have increased business and industry input which would enable NCHSE to stay ahead of industry trends as we prepare students for health science careers.

"There is nothing wrong with change, if it is in the right direction."
Winston Churchill

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NCHSE should be viewed as the national authority on health science education. Information about potential restructure was shared in advance of the all board update call in October 2017. Preliminary discussion on the shared graphic began during the call. Further discussion and input from the membership on this potential restructure will occur at the 2018 annual meeting.

Proposed Restructure and future focus

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Proposed Restructure
NCHSE Membership Report

2017
Alabama Department of Education
American Speech-Language-Hearing Association (ASHA)
Colorado Community College System
Delaware Department of Education
Georgia Department of Education
Hawaii Department of Education
HOSA–Future Health Professionals
Idaho Career and Technical Education
Indiana Department of Education
Iowa State Department of Education
Kansas State Department of Education
Kentucky Department of Education
Michigan Department of Education
Minnesota Department of Education
Mississippi Department of Education
Missouri Department of Elementary and Secondary Education
Nebraska Department of Education
North Carolina Department of Public Instruction
Ohio Department of Education
Oklahoma Department of CareerTech Education
Oregon Department of Education
South Carolina of Education
Texas Education Agency
Utah Department of Education
Washington Office of Superintendent of Public Instruction
West Virginia Department of Education
Wisconsin Department of Public Instruction

2018
Alabama Department of Education
Alaska Primary Care Association
American Medical Technologists
American Speech-Language-Hearing Association (ASHA)
Colorado Community College System
Delaware Department of Education
Georgia Department of Education
Hawaii Department of Education
HOSA–Future Health Professionals
Idaho Career and Technical Education
Illinois Department of Education
Indiana Department of Education
Kansas State Department of Education
Kentucky Department of Education
Michigan Department of Education
Minnesota Department of Education
Mississippi Department of Education
Missouri Department of Elementary and Secondary Education
Nebraska Department of Education
Nevada Department of Education
North Carolina Department of Public Instruction
Ohio Department of Education
Oklahoma Department of CareerTech Education
Oregon Department of Education
South Carolina Department of Education
Texas Education Agency
Utah Department of Education
Washington Office of Superintendent of Public Instruction
West Virginia Department of Education
Wisconsin Department of Public Instruction

Founding
California Department of Education
Florida Department of Education
Iowa Department of Education
Michigan Department of Education
North Carolina Department of Public Instruction
Tennessee Department of Education
Wisconsin Department of Public Instruction

Publishers/ Resources Coalition

1.5
The diverse perspectives of the NCHSE members, opens the doors to innovation and quality, results-oriented programs and products.
2.1 Strategy of Success

NCHSE is proud to note the addition of 15 content specific stackable certificate exams in 2017 that lead to the end-of-program National Health Science Assessment.

The health science assessments are intended to measure student knowledge and to inform classroom instruction. By offering more health science assessment choices, programs can choose the appropriate assessment that meets the needs and intricacies of their health science education programs for greater assessment information and performance.

Because there is such a variance to what defines a health science program (length of program; program completion; number of National Health Science Standards covered; etc.) the National Health Science Assessment was not always appropriately representative of student competency. Health science teachers will continue to be supported with National Health Science Standards based data specific to their programs to which they can use to adjust their curriculum.

NCHSE is also pleased to announce Precision Exams delivered a total of 23,196 National Health Science Assessment exams. Over 31 states participated in the National Health Science Assessment program. Below is summary of tests administered.

23,196 NATIONAL HEALTH SCIENCE ASSESSMENTS
In March of 2017, NCHSE partnered with Precision Exams to expand their marketing objectives. New emphasis was placed on tracking so that NCHSE could establish a baseline of metrics necessary to executing a plan that is clear, accountable, and aligned with the activities needed to help NCHSE achieve its goals.

- Strategic outreach to promote NCHSE by focusing on content through targeted, narrow cast outreach programs beyond our website and general online sources.
- Establishing better and more consistent analytics to inform tactics throughout the year.
- Refreshing and refocusing the NCHSE message, clarifying differentiators specifically related to strategic educational goals.

The marketing plan for 2017 focused on preserving many of the marketing tactics that contributed to key improvements in 2016 and included:

- Three specific landing pages, or micro-sites. These landing pages frame the story of NCHSE’s significant expertise and experience within the healthcare industry and highlight Precision Exams as the partner.
- Content and examples to show why and how the strategic educational stakeholder should expect more of their exams, and why NCHSE and Precision Exams are the ideal partner to help them achieve their goals.

With the new emphasis on stackable Health Science Exams, NCHSE developed a website strategy to explain the partnership, content included:

- Used our existing data to find the most relevant content to our audience (top landing pages)
- Analyzed the user path most common within our site and streamline their experience while incorporating more calls-to-action (CTAs)
- Appropriately use alt tags and subject headings to prioritize our content
- Refreshed site navigation
- Mapped content from the existing site carefully preserve sections and items that align with our SEO-rankings (back links, key words, etc.)

Booth material, banners, fact-sheets, table tops, and marketing collateral was developed to create a more consistent brand, assets included:

- Prior to HOSA the marketing committee designed and printed new banners, table covers, flyers and fact sheets for the booth.
- In addition, all Precision Exams collateral was cross-reference and correlate in all current marketing to brand all health science exams as NCHSE.

The marketing plan for 2017 focused on preserving many of the marketing tactics that contributed to key improvements in 2016 and included:

- Content
- Micro-site
- SEO
- Branding

2017 was about taking the resources we have available and operationalizing.
Engagement Highlights

WEBSITE 2017

- 26,609 Sessions
- 19,703 Users
- 144,065 Page Views

SOCIAL 2017

- 698 Total Page "Likes"
- 1.2K Top Post Reach

TRAFFIC 2017

2017 Traffic (Month over Month)
03

Expanding Outreach

3.1

HPN and Advanced CTE

In 2017 NCHSE participated in both the Health Professions Network and Advance CTE cluster Task Force to help shape healthcare education for students.

HPN

NCHSE is a member of the Health Professions Network (HPN), a collaborative group representing the leading health professions; organizational members include: professional associations, educators, accreditors and credentialing/licensing agencies.

In 2017 HPN hosted three meetings. Carole Stacy, Executive Director represented NCHSE at HPN events. The two semi-annual meetings focused on Advocacy (Dubuque) and Customer Service (Alexandria). The third special meeting in Chicago in July focused on the changing landscape that is the environment professional associations are facing.

HPN has produced a white paper titled “State of The Industry Report” to offer insight and guidance to HPN members. www.hpnonline.org

ADVANCE CTE CLUSTER TASK FORCE

In August, Carole Stacy, NCHSE Executive Director was invited to participate in a task force to review the Career Cluster Framework and make recommendations for changes to the work that was created in 2012.

The framework currently promotes 16 clusters. As industries have changed the recommendation has been made to review the 16 clusters and where appropriate retain, combine or remove clusters to align with industry needs today. The task force recommended stronger more visible ties with postsecondary education and increased engagement with employers as essential. Focus should also be on career advising of students.

The 15-member task force completed its work in mid-December. A formal narrative report of all recommendations will be submitted to Advance CTE in early 2018.
At the HOSA 2017 International Leadership Conference, June 20-24, Orlando, FL, NCHSE shared a HOSA Expo exhibit space with Precision Exams.

HOSA allowed time for sharing information with 1500+ HOSA advisors on the newly revised health science curriculum enhancements and Partnerships: School, Community, Healthcare, a work-based learning and partnership resource.

Seventy-five teacher names were collected for potential members for the proposed new health science teachers’ organization. NCHSE was also featured in three breakout sessions. Below is a summary for each:

**BUILDING, RETAINING AND SUSTAINING CLINICAL AND COMMUNITY PARTNERSHIPS**

Presented by Carole Stacey, over 50 HOSA advisers participated in discussions about getting to know their community partners and cultivating working relationships. In an effort to build and retain clinical sites and develop sustainable community partnerships in support of their health science education programs, participants exchanged ideas of how to show community partners appreciation and how to “think out of the box”.

Participants were introduced to the new NCHSE resource Partnerships: School, Community Health Care.

**LOOK BENEATH THE SURFACE FOR HUMAN TRAFFICKING**

FBI Special Agent, Alyson Samuels joined NCHSE Executive Director, Carole Stacey to provide a medical perspective of trafficking victims and the legal scope of the problem. Human trafficking is a global problem and is prevalent in the United States.

Participants were given the facts and strategies for asking the right questions will to help determine if someone is a victim who needs their help. References and resources were distributed to learn more about this growing problem.

**REFRESH AND RECHARGE: PROMOTING STUDENT ACTIVE ENGAGEMENT**

Lara Morris presented to fifty state advisors and instructors the features of the Health Science Enhancements. This updated resource, taking the place of the Health Science Curriculum Supplements, was being sold at the bargain price of $250 for anyone purchasing at HOSA! The improved content outlines, new web links and refreshed activities were well-received by attendees.

Finally, during the 2017 HOSA International Leadership Conference, NCHSE was excited to award five $1000 HOSA Scholarships to some incredible students.

**CONGRATULATIONS TO OUR 2017 SCHOLARSHIP RECIPIENTS!**

Cathy Nguyen, (TX)
Career Goal: General Practitioner
School: McNeil High School
Advisor: Shirley Shofner

Lachra Patel, (GA)
Career Goal: Dentist
School: Chattahoochee High School
Advisor: Tangela McCorkle

Sonja Moore, (WA)
Career Goal: Medical and Public Health Social Worker
School: Newport High School
Advisor: Saraya Pierce

Priyanka Rao, (SC)
Career Goal: Surgeon
School: Spring Valley High School
Advisor: Lorie McDuffie

Alyssa Polizzi, (MI)
Career Goal: Veterinarian
School: Adlai Stevenson High School
Advisor: Susan Rawling

Rachna Patel, (GA)
Career Goal: Veterinarian
School: Chattahoochee High School
Advisor: Tangela McCorkle

Sonja Moore, (WA)
Career Goal: Medical and Public Health Social Worker
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NCHSE and ACTE Partnership

On December 6, at ACTE VISION 2017 in Nashville, TN, at the Gaylord Opryland Resort & Convention Center, NCHSE provided the first ever pre-conference focusing exclusively on health science. NCHSE board members, Randi Hunewill (NV) and Lara Morris (OK) served as facilitators for the 4-hour session, "Creating and Sustaining a Quality Health Science Program." The workshop featured information on the NCHSE and its resources, particularly the Health Science Curriculum Enhancements. Each of the activities involved group work and interactive lessons that participants could take home and use in the classroom the following week. There were 61 attendees who benefited from the rich content. NCHSE thanks ACTE for the complimentary registration!

ACTE VISION 2017 MEETINGS

Randi Hunewill and Lara Morris met with the ACTE Executive Council to brainstorm partnership opportunities. Council members included Gina Riggs, ACTE President, Cindy McConnell, ACTE Health Science Division VP, Leann Wilson, Executive Director and Michael Connect, Senior Director Outreach.

NCHSE Executive Committee member Randi Hunewill met with ACTE Executive Council and the Business and Industry Advisory Group during ACTE VISION 2017 regarding certifications and a possible 2018 pre-conference. ACTE is committed to focus on more health science related vendors, workshops, and marketing. A recommendation was made to add the ACTE Health Science Division Vice President to the NCHSE Board of Directors.
Ensuring your students are prepared for careers in health professions is more important than ever. NCHSE is now offering 15 stackable exams from dental assisting to sports medicine.

PE Partnership

NCHSE had arranged for Precision Exams to serve as the primary exam management partner for the Consortium’s career and technical education exams.

In this role, Precision Exams was responsible for collaborating with NCHSE to build, maintain and promote relevant assessments aligned to the National Health Science Standards and to create reports that will support health science state leaders and teachers in making better decisions about curriculum and classroom instruction. Precision Exams was responsible for overseeing the administration and data. With this support, teachers will have access to information they may use to adjust their curriculum based on performance of their students.

The Precision Exams partnership reflects a strategic effort to provide a strong foundation to reach a broader audience of health science students and teachers, while opening the door for greater and more direct industry and post-secondary engagement. NCHSE and its committees focus on thought leadership, educational standards and outcomes, and providing direction on best practices and policies across the nation.

Together, NCHSE and Precision Exams will focus on designing clear and consistent standards for health science teachers and students; meeting the needs of all health science education programs by offering greater flexibility for students to engage at the course level; and expanding the essential knowledge across health professions to prepare and increase the number of students that are college and career ready. As organizations dedicated to delivering next-generation health science education products and resources, NCHSE and Precision Exams will work together to ensure that health science education programs are meeting the needs of all students, regardless of their background or future career aspirations.
04

2017 Institution for Educational Excellence Report

"CAN'T WAIT TO SHARE THESE IDEAS WITH THE TEACHERS BACK HOME! ENGAGING! LEARNED SO MUCH!"

4.1

Institution for Educational Excellence

The Institute for Educational Excellence (IEE) was a two-and-a-half-day intensive training for a select group of innovative health science teachers.

IEE focused on the National Health Science Standards, bringing industry to the classroom, student engagement, pedagogy, technology, and STEM. Participants experienced the power of working with growth-focused, motivated, like-minded peers; learning strategies to motivate and inspire other health science teachers; designing "hooks" to stimulate topic interest, relevance, and curiosity; identification of means to improve instruction and student learning; and the incorporation of the National Health Science Standards in the curriculum.

"EXCELLENT USEFUL RESOURCES! THANK YOU!"
Summary of Presentations

"Great to have great ideas from colleagues about best practices and collective wisdom from across the country!"

SESSIONS INCLUDED:
- Learning Games to Increase Student Engagement
- Behavioral Health Incorporated into Health Science Curriculum
- Teaching Pathology in Health Science (Teachers were with students from the Nebraska Health Academy. The skin integrity lesson allowed everyone to learn suturing on a banana.)
- Activities in a Pinch 2.0
- Recruitment and Talent Acquisition in the Healthcare Industry
- Enhancing the Patient Experience
- How We Pay for Healthcare Services

SPECIAL THANK YOU TO OUR SPONSORS!
- DEPCO, LLC
- PassAssured
- AES Education
- HOSA-Future Health Professionals
- Nebraska Career Education
- Nebraska Department of Education
- Nebraska Corn Board
- Nebraska Department of Economic Development
- CHI Health
- University of Nebraska Medical Center
- Nebraska Medicine
- University of Nebraska Medical Center – High School Alliance
- Metropolitan Community College – Omaha Campus
- Behavioral Health Education Center of Nebraska (BHECN)
- Dr. Geoffrey Talman, MD
- Fusion Medical Staffing
- Terri Donahue – Nebraska Career Education
- Nebraska Health Science Teachers

"This was an eye-opening experience! Extremely interesting and innovative!"
Proposed Teacher Organization

At the NCHSE 2018 Annual Board of Directors Meeting, January 31-Feb 1, the Executive Committee will ask for a bylaws revision, which will in effect, add a health science teachers organization under the NCHSE umbrella.

The teachers organization would have a representative on the NCHSE Board of Directors. This organization would spearhead NCHSE’s efforts related to professional development. This recommendation was based on a survey of teachers across the nation who identified the following:

- The organization should focus on both secondary and postsecondary/collegiate instructors.
- While many items were discussed as services for membership, professional development and shared teacher best practices (see chart below) were ranked highest according to need.
- Focus would be a professional development; not in competition with ACTE and the Health Science Division which act as our career and technical advocacy organization.
- Proposed name: National Health Science Educators Association
- Recommended annual membership fee: $45

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<th>Professional Development</th>
<th>Shared Teacher Best Practices</th>
<th>Listing of all potential professional educators</th>
<th>E-Newsletters</th>
<th>Digital RSS Feed</th>
<th>Discounted NCHSE</th>
<th>Quarterly webinar on science education</th>
<th>Quarterly webinar on research/innovation</th>
<th>Membership Card or discount</th>
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The 2018 National Health Science Conference

Health Science Education: Growing the Pipeline a Mile High.