North Carolina Society of Hispanic Professionals

It’s all about our youth!
Mission Statement

“The mission of the North Carolina Society of Hispanic Professionals is to promote the education of Hispanic students at all scholastic levels.”
North Carolina Demographics

- Last year, in North Carolina, the Hispanic population accounted for 24 percent of our state's population growth.
  - This number is only expected to rise. Especially considering the fact that the median age for Hispanics is 24 years old.
- What does this mean for us?
  - It means that the Hispanic market is overdue for some attention.
  - We also need to think about and discuss the issues that affect this community.

Report “Demographic and Economic Impacts of International Migration to North Carolina”
James H. Johnson Jr and Stephen J. Appold – Kenan-Flagler Business School, UNC Chapel Hill
The Importance of Postsecondary Education

- More than 59% of jobs in North Carolina (2.9 million jobs) require postsecondary education (some education beyond high school) – Compared with only ~25% of jobs in the mid-'70s.
- By the end of this decade, North Carolina will create 1.4 million job vacancies both from new jobs and from job openings due to retirement of baby boomers.
- Last year, the number of jobs for individuals with some postsecondary education grew by 12.6% compared to only 7.6% for high school dropouts.

A. Carnevale, N. Smith, & J. Strohl; Georgetown University - Center on Education and the Workforce
NCSHP Educational Programs

- Hispanic Educational Summit
- NC Hispanic College Fund of Triangle Community Foundation (College Scholarships)
- Inspirational Speaker Group
- “Stay in School” Campaign
- Hispanic Educational Fair "Mi Éxito, la Universidad" An educational fair for Hispanic students and their parents
- “TuPortalSTEM” Initiative
- ¡Gradúate! Program – Dropout Prevention & Leadership
- Educational Advocacy
Annual Hispanic Educational Summit

- Sponsored first ever Hispanic Educational Summit, the largest educational conference in North Carolina for middle and high school Hispanic students.

- The goal of the summit is to serve as an outreach educational program to encourage Hispanic students to stay in school, earn good grades, and continue with their education.

“Especially noteworthy in North Carolina is the NCSHP which organizes an annual statewide Hispanic educational summit”.

-“The New Latino South and the Challenge to Public Education” by Andrea Wainer - The Tomás Rivera Policy Institute

To date more than 14,000 Hispanic students from more than 50 counties have attended our annual Summit!
NC Hispanic College Fund

- A fund established by NCSHP at Triangle Community Foundation in 2004.
- Awards annual scholarships worth between $500 and $2,500. Scholarships recipients are recent graduates of North Carolina high schools who are of Hispanic/Latino background and enroll in a 2 or 4 year college/university.

Awarded nearly $515,000 in scholarships to over 370 deserving and promising Latino students who otherwise would have faced monumental obstacles to completing their education.
¡Gradúate! Program

- Began in the 2011-2012 school year with the support of a grant from the NC Committee on Dropout Prevention provided by the North Carolina Legislature and administered by the NC Department of Public Instruction.
- The ultimate goal of the ¡Gradúate! Program is to help Hispanic students attain academic success, graduate from high school, and become the leaders of tomorrow.
- Supports students with one-on-one coaching in schools, after school life skills and tutoring and parent workshops.
- Is now implemented in Wake county, and funded by Wake County Public School System at Cary, Millbrook, and Southeast Raleigh High Schools.

VIDEO:
http://www.youtube.com/watch?v=9WtoYE5jcFl&list=UUocaWfEbDd3CWd96In5aPjg&index=13
Stay in School Campaign

- Developed and implemented **first ever**, statewide Stay in School campaign and video contest “Your Life, Your Future, Your Destiny, Is Now...Stay In School” to remind Hispanic students and their parents about the need to finish high school and pursue a technical or an advanced education as a means to achieving educational success and economic mobility.
- Since 2008, the video contest has received over **125 entries**.

- NCSHP shows a public service announcements (PSA) emphasizing the need for Hispanic students to stay in school and continue with their education as much as they can. The PSA/advertisement is broadcasted on Univision, and Hispanic Radio Stations.
Stay in School Campaign
“Mi Éxito, la Universidad” Hispanic Educational Fair

- Awareness event to provide Hispanic Parents with tools and information to help their children succeed in school and encourage students to pursue higher education.
- Initiative began in 2011.
- Have established partnerships with North Carolina Central University, El Centro of Durham and Univision 40.
- Exhibitors from all aspects of Health, Education and Community Services.
- Information sessions and workshops in Spanish for parents and students regarding how to navigate the school system and college access.
- 2019 Fair: September 14 - 8:30 AM to 1:30 PM @ NC Central University, Mary Townes STEM Building.
What is STEM?

- STEM is shorthand for **Science, Technology, Engineering, and Mathematics**
- Used to refer to the integrated way subjects in these fields are applied to each other in education
- STEM education is a blossoming movement not just in the United States, but around the world
Importance of Hispanic Representation in STEM

- Hispanics are underrepresented in the STEM field.
- Hispanics in the US workforce have grown to 15%, yet Hispanics only account for 6.5% of the workforce in STEM careers.
- Only earned 8% of all certificates and degrees awarded in the STEM fields between 2009 and 2010.
- Just 4% of software developers were Hispanic in 2011 (American Community Survey).
More than 1 million jobs will be STEM related by 2022. Jobs in technology are not being filled because of a lack of talented and qualified workforce. 93/100 STEM occupations had wages above the national average in 2011. National average wage for all STEM occupations = $87,570 (nearly double). Employment in STEM occupations grew by 10.5%, between May 2009 and May 2015, only 5.2% net growth in non-STEM jobs. Computer occupations and engineers among the types of STEM occupations with the highest job gains.
10 fastest growing STEM occupations that require a bachelor’s degree:

1. Statisticians
2. Operations research analysts
3. Cartographers and photogrammetrists
4. Forensic science technicians
5. Biomedical engineers
6. Mathematicians
7. Computer systems analysts
8. Software developers
9. Actuaries
10. Information security analysts.
10 fastest growing STEM occupations that do NOT require a bachelor’s degree

1. Web developers
2. Computer support specialists
3. Geological and petroleum technicians
4. Environmental engineering technicians
5. Environmental science and protection technicians
6. Health, computer network support specialists
7. Electrical & electronics drafters
8. Agricultural & food science technicians
9. Civil engineering technicians
10. Aerospace engineering and operations technicians
Partnership with Burroughs Wellcome Fund (BWF) and Goals

The North Carolina Society of Hispanic Professionals (NCSHP) is collaborating with Burroughs Wellcome Fund (BWF) in the **TuPortalSTEM initiative** with the following **GOALS**:

- Raise awareness and increase access to information among middle and high school Hispanic students and their families of STEM education and career opportunities.
- Promote participation and enrollment of Hispanic students in STEM year-long programs, after-school programs, and competitions.
- Encourage Hispanic students to pursue careers in STEM fields.
Our Approach to Promoting STEM Programs in North Carolina Among Hispanic Students

Promotion of Participation/Enrollment of Hispanic Students in STEM

- STEM Bilingual Hotline Hosted by NCSHP
- TuPortalSTEM hosted at www.thencshp.org
  Linked to NCSTEM Center
- NC STEM Center Website (ncstemcenter.org)
  Help Latino families navigate website
- STEM Informational Booths at Community Events
- Communication structure developed by NCSHP with Public School Systems in NC
- Partnership with organizations serving Hispanic students
- Hispanic Media-related content (PSA, one-pagers, Press Release Announcements, etc)
College STEM Promoters Group

The NCSHP introduced the TuPortalSTEM College Promoters! A group composed of college students in STEM related fields committed to promoting STEM education among Latino students and parents. This group is part of the STEM initiative by NCSHP and Burroughs Wellcome Fund to raise awareness and increase access to information about STEM education, STEM career opportunities, and STEM programs and opportunities for Hispanic students and their families.
College STEM Promoters

Irene Bethencourt, UNC Chapel Hill, Nursing

Oscar Molina, NC State University, Computer Science

Alexander Rojas, NC State University, Microbial Biotechnology

Mariana Calvo Argus, NC State University, Electrical Engineering

Iris Salswach Cadena, NC State University, Biological Sciences

Gerardo Morado, Wake Tech Community College, Engineering
What is TuPortalSTEM?

TuPortalSTEM is a bilingual web portal dedicated to Science, Technology, Engineering, and Mathematics (STEM). It is designed to raise awareness and increase access to information about STEM education, STEM career opportunities, and STEM programs and opportunities for Hispanic students and their families.
LEARN

Hispanics in STEM

How to get your Student Interested in STEM

Careers in STEM

Math Anxiety & How To Overcome It
FIND

Instructions on how to navigate NC STEM Center

University & College STEM Associations for Students

STEM Programs & Opportunities

College & University STEM Degrees
Family engagement in STEM education

Parents play a **vital role** with their children in raising awareness of the value of STEM and in facilitating participation in activities that build STEM interest and skills.

- How to Encourage Your Student to Pursue STEM Education
- How to Find Educational Programs for Your Children- Navigating NC STEM Center
- Family Activities to Engage STEM Skills
How to Navigate TuPortalSTEM

TuPortalSTEM, a web portal dedicated to Science, Technology, Engineering, and Mathematics (STEM), was designed to raise awareness and increase access to information about STEM education, STEM career opportunities, and STEM programs and opportunities for Hispanic students and their families.

http://thencshp.org/tuportalstem/
How to Find Programs & Opportunities using the NC STEM Center Website

Let’s take a look!

https://www.ncstemcenter.org/
EASY STEM ACTIVITIES TO DO WITH YOUR STUDENTS

- How to make a volcano - Wonder Connection - NC Botanical Garden
  http://www.wonderconnection.org/
- How to make a rainbow in a jar -
  https://www.playdoughtoplato.com/rainbow-jar-st-patricks-day/
- How to make fireworks in a jar -
  http://www.icanteachmychild.com/fireworks-in-a-jar/#_a5y_p=1858118
- The water cycle in a bag -
  http://www.playdoughtoplato.com/water-cycle-bag/
- Design tree houses to ferris wheels with simple physics -
  http://jundroo.com/app/simplephysics/
- Design straw bridges -
  http://www.playdoughtoplato.com/stem-project-straw-bridges/

... And more!
Rainbow Jar

Kids’ Science Experiment Example

Materials:
A tall, see-through container, Honey, Light corn syrup, Dish soap (either blue like Dawn or green like Palmolive), Olive oil, Rubbing alcohol, Water, Food coloring, A dropper

The Science Behind It:
Density- density is how compact an object is. Different liquids have different weights. Everything is made up of teeny tiny things called molecules and some of these liquids have a lot of molecules in them and some of them have only a few.

Find more activities in our “Family Engagement” page: http://thencshp.org/tuportalstem/family-engagement/
Help spread the word about TuPortalSTEM!

1. **Promote** TuPortalSTEM on your **website** by including a link to www.thencshp.org/TuPortalSTEM
2. **Promote** our STEM resources to your **mailing list** in your next **newsletter**
3. **Contact** our office if interested in obtaining **STEM brochures and flyers** to distribute
4. **Invite** NCSHP to events
5. **Print** out our TuPortalSTEM **brochure** and **hand** it out to your students
6. **Post** TuPortalSTEM brochure on a prominent **bulletin board** in your classroom/school/organization
7. Take students to museums, parks, etc
8. **Talk** to your students about what they will **find** in TuPortalSTEM
9. **Encourage** Hispanic students and their families to call our **Bilingual STEM Hotline**: (919) 467-8424 to get personalized help
10. **Send us** information on any STEM programs, **events, fairs**, or other opportunities in your **county**
11. **Follow us** and encourage your students To follow us on **social media** @ncstem @thencshp @bwfund and #TuPortalSTEM to keep up to date with our STEM initiative
Call our STEM hotline for personalized help in English and Spanish at (919) 467-8424 or email us at mailbox@thencs hp.org!

Thank you!

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