CHEO Discipline Panel
Faculty Professional Development Workshop

By Design:
Taking ALL Allied Health Students Across the Finish Line

Provided by the
Western Interstate Commission for Higher Education for the Consortium for Healthcare Education Online (CHEO)

May 14-15, 2015
SHEPC Learning Center
Boulder, CO
Welcome!

Welcome to Boulder, the home of the Western Interstate Commission for Higher Education (WICHE), dedicated to helping its 16 member states and territories expand educational access and excellence for all citizens of the West.

For this final faculty professional development workshop, we are pleased to offer thought-provoking topics that will guide you when developing and enhancing the hybrid and online curriculum you have developed for your allied health courses. With higher education’s emphasis today on providing equal educational access, whether addressing the needs of rural students, those working full time jobs, those in the military or returning from duty, or those who require special accommodations to be successful, each of you are striving to deliver opportunities through channels that are open to all students.

At the same time, we are challenged with an ever changing landscape in the health care industry. This shift provides us with unique opportunities to rethink the way we teach and to provide students with the chance to use technologies that are part of everyday practice in their field. Collecting data remotely, using mobile devices for collecting information, and reviewing medical information from a distance are part of today’s medical landscape.

We have enjoyed delivering topics in these professional development workshops and webinars that can expand your toolkit and be applied when creating new and converting existing educational content to hybrid or online delivery. Thank you so much for allowing us to be a part of your important work.

Sue Schmidt,
NANSLO/CHEO Project Coordinator, WICHE

Overview

This professional development workshop is delivered to faculty from the eight partner institutions participating in the Consortium for Healthcare Education Online (CHEO) initiative, funded through a U.S. Department of Labor TAACCCT grant.

During the two-day workshop, you will have the opportunity to clarify your understanding of what open educational resources (OER) are, learn the value of implementing universal design learning (UDL) in your curriculum from the start of the development work, identify UDL currently embedded into your own course content and how to expand its application, learn about the expanded offerings and capabilities available through the NANSLO labs serving your institutions, see how colleagues have used CHEO dollars to create innovative content, gain knowledge in how interactive simulations have been created and delivered to students, and hear about the ever-changing landscape of higher education and where it is heading.
Workshop Objectives

By the end of this workshop, you will be able to:

• Describe how OER applies to content you have developed.
• Determine when to start thinking about UDL and how it can be incorporated into your educational material.
• Define NANSLO lab activities that can be used in your curriculum and how you will schedule the activity(ies).
• Identify innovative education approaches faculty have used in their classes that could be used in your classes as well.
• Describe how PhET interactive simulations are delivered and used by students.
• List the opportunities and challenges in using traditional labs, virtual labs, simulations, and lab kits.
• Discuss ways higher education is changing and some of the technologies and collaborative opportunities coming.

Workshop Coordinators

Sue Schmidt is the NANSLO/CHEO project coordinator for WICHE. Schmidt provides professional development opportunities for CHEO science and allied health faculty who are creating remote lab experiences utilizing the NANSLO lab and its resources in CHEO courses and for CHEO career coaches. Schmidt facilitates communication between members of discipline panels and career coaches to share best practices and project updates and also serves as the project manager for the development of the NANSLO Network Scheduling System. Previously, she worked for Colorado Mountain College. Schmidt holds an M.A. Ed. from George Washington University with a focus in educational technology leadership and a bachelor of science degree in business administration.

Patricia (Pat) Shea is the director for academic leadership initiatives at WICHE. Shea oversees the activities of three membership-based organizations: WICHE Internet Course Exchange; Western Academic Leadership Forum; and Western Alliance of Community College Academic Leaders. In addition, she directs WICHE’s involvement in three regional collaborative projects: the North American Network of Science Labs Online; the Consortium for Healthcare Education Online; and the Interstate Passport Initiative. Prior to serving in this position, Shea served as the assistant director of WCET, also based at WICHE. She holds an M.A. in educational administration and supervision from George Mason University.
Workshop Agenda

Thursday, May 14

8:45 – 9:00 am  Welcome and Goals for the Day

Speakers:
David Longanecker, president, WICHE
Sue Schmidt, NANSLO/CHEO project coordinator, WICHE

9:00 – 10:00 am  OER Revisited

As awareness of Open Educational Resources (OER) increases so do the questions about just what is and isn’t OER. What is OER – textbooks, simulations, lab resources, online learning course materials? What is the difference between OER and publishers’ traditional course materials? Join Paul Stacey as he unpacks these questions and shows how the answers affect practices associated with use of existing OER and creation of your own. As faculty working on the CHEO program, you probably have questions about OER, the process of contributing them to Skills Commons, and what happens to them going forward. Stacey welcomes all questions and hopes to not only help you meet TAACCCT requirements but inspire you about the future of OER.

Speaker:
Paul Stacey, associate director of global learning, Creative Commons

10:00 – 10:15 am  Break

10:15 – 11:15 am  Applying UDL to Your Course Material to Enhance Student Learning

Today’s learners have diverse abilities and backgrounds, including students with physical, sensory, and learning disabilities, differing cultural and linguistic backgrounds, varied preferences and motivations for learning, students who are unusually gifted, and many others. As faculty, you are responsible for ensuring that you provide learning opportunities that ensure student success. How do you meet these challenges when planning your curriculum? Universal Design for Learning (UDL) assists in meeting the challenge of diversity by providing flexible instructional materials, techniques, and strategies that help design instruction to meet these varied needs. In this session, Sam Johnston and Gerry Hanley will first provide insights into what faculty need to know about UDL, why using it is so important, how to apply its standards to curriculum, and how its application optimizes the learner experience. Then, working closely with you later today, they will assist you in identifying UDL approaches you have already embedded into your curriculum and guide you in identifying other approaches to expand your UDL strategies. Please use course material from your CHEO courses for the two-hour afternoon UDL working session.

Speakers:
Gerry Hanley, assistant vice chancellor, Academic Technology Services, and executive director, Multimedia Educational Resource for Learning and Online Teaching (MERLOT), California State University, Office of the Chancellor (CSU)
Sam Johnston, research scientist, Center for Applied Special Technology (CAST)
11:15 am – 12:15 pm  Applying UDL to Enhance Student Engagement and Learning
Awarded Colorado State University’s N. Preston Davis Award for Instructional Innovation with an emphasis on Universal Design for Learning, McLean will share some of the UDL techniques she uses in her large general microbiology course.

Speaker:
Jennifer McLean, microbiology, immunology, and pathology faculty, Colorado State University

12:15 – 1:15 pm  Lunch

1:15 – 3:15 pm  Working Groups
Using course material you brought to this session, facilitators will work with you to identify ways to incorporate UDL into your coursework and identify UDL best practices already used.

Facilitators:
Alyssa Boucher, associate research scientist, Center for Applied Special Technology (CAST)
Gerry Hanley, CSU
Sam Johnston, CAST
Paul Stacey, Creative Commons

3:15 – 4:00 pm  NANSLO Update
In this session you’ll get a chance to hear about all the NANSLO lab activities created for CHEO, find out how many students have been served by these activities, and how you can use the NANSLO Network Scheduling System to reserve blocks of time for your students.

Speakers:
Albert Balbon, NANSLO British Columbia Lab and supervisor of distributed learning, North Island College (NIC)
Farah Bennani, CHEO allied health curriculum lead, WICHE
PJ Bennett, lab director, NANSLO Colorado Lab, Colorado Community College System (CCCS)
Brenda Canine, lab manager, NANSLO Montana Lab, Great Falls College Montana State University (GFCMSU)
Kate Lormand, CHEO biology curriculum lead, WICHE
Sue Schmidt, WICHE

4:00 – 4:30 pm  Focus Group
Based on the information shared today, the audience you are serving, and your curriculum, CAST will facilitate hands-on activities that will help improve current resources on UDL implementation and accessibility.

Facilitators:
Alyssa Boucher, CAST
Sam Johnston, CAST
Friday, May 15

8:45 – 9:00 am  Welcome and Goals for the Day
Sue Schmidt

9:00 – 10:00 am  Faculty Showcase
CHEO faculty will discuss creative strategies and tools used in their curriculum to engage students and enhance learning.

• Lightboard video lectures and synchronous instruction for online and face-to-face sections.
  Speaker: David Long, Flathead Valley Community College (MT)

• Nurse Aide: A support for patients in hospice and their families.
  Speaker: Cathy Wagner, Red Rocks Community College (CO)

10:00 – 10:15 am  Break

10:15 – 11:15 am  PhET Interactive Simulations
University of Colorado Boulder’s PhET Interactive Simulations is one of two winners of the 2014 Wharton-QS Stars Reimagine Education Award. This global competition received submissions from 427 universities and enterprises from 43 countries with 21 awards judged by a panel of 25 international experts – a “who’s who” of higher education. PhET provides a collection of free interactive simulations to teach students fundamental principles of science and math. Over 130 stunning and engaging simulations for science and math have already inspired millions of students, with over 75 million uses per year around the world. Learn more about this award-winning resource.

Speaker: Yuen-ying Carpenter, post-doctoral researcher in chemistry education, PhET Interactive Simulations project, University of Colorado Boulder

11:15 am – Noon  Discussion Group: Traditional Labs, Virtual Labs, Simulations, and Lab Kits, Oh My!
There are opportunities and challenges to each of these environments for certain lab activities. Here’s an opportunity to share your insights and lessons learned in the use of these different modalities alone and in combination for specific lab activities.

Moderator:
Brenda Canine, NANSLO lab manager, GFCMSU

Noon – 1:00 pm  Lunch
1:00 – 2:00 pm  **Faculty Showcase**
- Building a medical laboratory technician program (MLT) for Southeast Colorado.
  *Speaker: Angela Tarrant, Otero Junior College (CO)*
- Enhancing student understanding by developing an animation of the dynamic process showing how polar and nonpolar molecules are physically separated on a gas chromatograph column.
  *Speaker: Dan Casmier, Great Falls College Montana State University*

2:00 – 3:00 pm  **Peering Into the Future of Higher Education: What’s Just Around the Corner and On the Horizon?**
New technologies and innovations are pushing us to transform the way we teach and students learn. Indeed, the public and policy makers are demanding that we do so. What are some of the most promising innovations being implemented today? What changes are OER, universal design, and virtual labs likely to make in allied health and science courses in the future? And what is ahead in new technology applications and collaboration opportunities that few see coming?
  *Speaker: Gerry Hanley, CSU*

3:00 – 3:30 pm  **Closing Remarks and Reflections**
  *Speakers:*
  - Maria Fieth, *CHEO project director, Pueblo Community College (CO)*
  - Sue Schmidt, *WICHE*

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The information presented during this May 14th and May 15th Faculty Professional Development Workshop will be posted online at:
http://www.wiche.edu/nanslo/initiatives-projects/current-initiatives/cheo/cheo-faculty-pd
Presenters & Moderators

Albert Balbon is the supervisor of distributed learning at North Island College in British Columbia, Canada. He is responsible for the planning of resources and the ongoing evaluation and successful implementation of e-learning technologies, and also acts as an expert resource on e-learning technologies for faculty, staff, and administrators. Balbon has been involved with distributed learning at North Island College for over 28 years. He received second place in the Discipline Award in Natural Sciences in December 2015 at the Wharton-QS Stars Awards 2014: Reimagine Education as well as other awards in 2006 and 2010. Balbon’s project, the Remote Web-based Science Laboratory, which can be used to deliver university-level lab exercises to students using the Internet, has garnered international attention and led to the establishment of the North American Network of Science Labs Online.

Farah Bennani is the chair of online learning for math, science, allied health, and psychology at Front Range Community College (CO), and is the ChEO curriculum lead, allied health. Bennani teaches microbiology, anatomy, physiology, and general college biology for health sciences students, as well as science of biology for non-biology majors. Bennani holds a degree in computer science as an analyst-programmer, a bachelor of science in animal biology and option immunology, an advanced studies certification, and a patent for her research study for her doctorate of science in microbiology. She was recognized by Who’s Who Among America’s Best Teachers in 2007, and Marquis Who’s Who and Cambridge Who’s Who for Excellence in Higher Education in 2008. She received the Master Teacher Award in 2009 at Front Range Community College and the Online Faculty Award of the Year in 2010 at Community College of Denver. She is also an affiliate faculty member at Regis University in Colorado.

Alyssa Boucher is an associate research scientist at the Center for Applied Special Technology (CAST), with expertise in speech and language disabilities. Boucher is particularly interested in minimizing barriers within the curriculum that affect expression, language processing, and comprehension. Part of her work involves supporting the U.S. Department of Labor’s, Trade Adjustment Assistance Community College & Career Training grantees through Project OPEN which focuses on meeting the needs of variable learners through Universal Design for Learning. Before joining CAST, Boucher worked as a speech-language pathologist in schools and hospitals, and researched the communication development of children with rare genetic syndromes. She holds a B.S. in communication disorders and an M.A. and a Ph.D. in speech-language pathology, all from the University of Massachusetts-Amherst.

Paul (PJ) Bennett is the lab director at the NANSLO Colorado Community College System laboratory. Previously he served as an academic technology consultant, assistant director of the Graduate Teacher Program, and, while a graduate student, the lead graduate teacher for the Graduate Teacher Program, all at the University of Colorado Boulder. His interests include faculty and teacher assistant development, educational reform, improving teaching in the sciences, use of technology in face-to-face classrooms and in blended and distance classrooms, and mobile technology in education. He has a Ph.D. in molecular, cellular, and developmental biology from the University of Colorado Boulder and a bachelor’s degree in biology and biochemistry from the University of Oregon.

Brenda Canine is the lab manager at NANSLO Great Falls College Montana State University laboratory. She is also an adjunct instructor at GFCMSU teaching microbiology and chemistry. Before joining the NANSLO team, she was a research scientist at the McLaughlin Research Institute studying the genetics of neurodegenerative diseases. Canine holds a B.S. in chemical engineering and a Ph.D. in pharmaceutical sciences and has experience working in private, government, and industry labs.

Yuen-ying Carpenter is a post-doctoral researcher in chemistry education with the PhET Interactive Simulations project at the University of Colorado Boulder which designs and develops free online interactive simulations for teaching and learning science and mathematics. Carpenter divides her time between designing interactive chemistry simulations and researching their use in the college classroom. She is interested in how students use simulations to com-
municate, and refine their ideas and practices in chemistry and applied sciences; as well as how faculty facilitation and activity design influence student simulation use. In addition, she develops faculty professional development resources and consults with college chemistry faculty on effectively incorporating simulations into their teaching practice. Prior to joining the PhET project, she completed a Ph.D. in inorganic chemistry at Dalhousie University in Halifax, Nova Scotia, Canada.

Dan Casmier has been chemistry faculty and natural sciences department chair at Great Falls College Montana State University since Fall 2012. Prior to that, he was an adjunct instructor. He teaches face-to-face and hybrid lecture and laboratory classes in organic and general chemistry. In spring 2014, Casmier was awarded a faculty fellowship to teach organic chemistry in a “sandbox” classroom using a “flipped” learning approach. In addition to teaching, Casmier was a senior process engineer in the lithography area for Intel Corporation and was the recipient of several awards for his efforts to improve performance and quality in high-volume manufacturing. He holds a B.S. in chemistry from Pacific Lutheran University in Tacoma, Washington and a Ph.D. in organic chemistry from the University of Washington in Seattle, Washington.

Maria Fieth is project director for the Consortium for Healthcare Education Online (CHEO). Her previous position as project manager for a federally funded Safe Schools/Healthy Students initiative provides a strong backdrop for the U.S. Department of Labor’s TAACCCT round two CHEO grant work. In 2010 her work as project manager received national recognition from Kevin Jennings, U.S. Department of Education. Her work was honored by Auburn University with a national award in building exemplary schools and community partnerships. She holds a master’s degree in English and education and a master’s degree in psychodynamic counseling.

Gerard Hanley is the assistant vice chancellor for Academic Technology Services and the executive director of MERLOT (Multimedia Educational Resource for Learning and Online Teaching) for the California State University, Office of the Chancellor. At MERLOT, he directs the development and sustainability of an international consortium and technology strategy to provide open educational services to improve teaching and learning. At CSU, Hanley oversees the management and implementation of system wide academic technology initiatives including digital library services, course redesign with technology, and accessible technology initiatives serving CSU’s 23 campuses with over 22,000 faculty and 447,000 students.

Sam Johnston is a research scientist for the Center for Applied Special Technology (CAST) and along with her team is providing a comprehensive infrastructure support and capacity building to TAACCCT grant recipients. The goal is to raise the baseline of community college education based on best practices including the integration of Universal Design for Learning into open education resources. She is also a researcher for a national center tasked to understand how K-12 online learning impacts the access, participation, and progress of students with disabilities. Before joining CAST, Johnston was a senior associate and distance educator at the Center for Social Innovation (c4si), serving as project director for the development of several blended learning professional development programs. In addition, she developed and pilot-tested an online simulation game designed to assist clinicians to improve their skills in motivational interviewing. Johnston has a B.A. in history from McGill University, Montreal, Quebec, Canada, an Ed.M. and an Ed.D. in cognition and instruction, learning, and technology, both from Harvard Graduate School of Education.

David Long is assistant professor of chemistry at Flathead Valley Community College. Long earned a B.S. in chemistry with honors and distinction from Penn State and his Ph.D. in biochemistry from the California Institute of Technology. After finishing a National Institutes of Health (NIH) sponsored postdoctoral fellowship at the University of Colorado, he worked as a research assistant professor at Montana State University Bozeman in the plant sciences department. While at MSU Bozeman, he coordinated the undergraduate biotechnology program. Long has taught high school level science at a therapeutic boarding school, and he is also a photojournalist. Long’s current areas of interest are undergraduate research at community colleges and innovative technologies for improving the online student experience.
David Longanecker is the president of the Western Interstate Commission for Higher Education in Boulder, Colorado. Previously he served for six years as the assistant secretary for postsecondary education at the U.S. Department of Education, developing and implementing national policy and programs that provided more than $40 billion annually in student aid and $1 billion to institutions. Prior to that, he was the state higher education executive officer (SHEEO) in Colorado and Minnesota. He was also the principal analyst for higher education for the Congressional Budget Office. Longanecker has served on numerous boards and commissions and has written extensively on a range of higher education issues. He holds a B.A. in sociology from Washington State University, an M.A. in student personnel work from the George Washington University, and an Ed.D. from Stanford University.

Kate Lormand is an adjunct faculty, biology, for CConline and Great Falls College Montana State University and is the CHEO curriculum lead, biology. She has over 20 years of experience in teaching at the community college level in biology, anatomy and physiology, genetics, and botany for both majors and non-majors. She has worked at community colleges in both California and Colorado as an adjunct faculty, and her experience includes both traditional face-to-face courses and online teaching. Additionally, Lormand worked on the development of an online biology course through the Monterey Institute, writing an online text and creating the activities and learning objectives. She has been responsible for the development of new courses, as well as the refinement of existing courses to meet evolving standards.

Jennifer McLean is assistant professor in the department of microbiology, immunology and pathology at Colorado State University where she also received her Ph.D. Her current research efforts are focused on identifying immune correlates of protection against tuberculosis in terms of vaccine development, as well as UDL strategies in the classroom. She has taught courses in general microbiology, immunology, immunology laboratory, survey of microbiology, microbial biology laboratory, and a freshman microbiology seminar. Teaching awards include the Provost's N. Preston Davis Award for Instructional Innovation, Innovative Instructional Methodology Award in Undergraduate Education, and the Dr. Blanche M. Hughes Distinguished Faculty Staff Award.

Paul Stacey is associate director of global learning for Creative Commons where he helps creators, faculty, students, librarians, and the public generate a global public commons of knowledge and culture. This work builds on decades of experience leading adoption and use of online learning and educational technology in higher education and corporate training. Prior to joining Creative Commons, Stacey led open educational resource (OER) and professional development initiatives across all the colleges and universities in British Columbia, Canada.

Angela Tarrant has been a faculty member at Otero Junior College since the fall of 2013. She teaches many of the medical laboratory technician (MLT) classes and manages the clinical internships for those students. Prior to working at OJC, she worked in the clinical laboratory for over 25 years both as a generalist and a microbiologist. She has worked in hospitals ranging from 20 to 1000 beds. She also taught phlebotomy at Canadian Valley Vocational Technical School in El Reno, OK and microbiology and parasitology to the medical laboratory science (MLS) students at Parkview Medical Center. She holds a B.S. in biology and in medical technology from Southwestern Oklahoma State University in Weatherford, OK, and she obtained her specialty in microbiology from the American Society for Clinical Pathology in 2013.

Cathy Wagner works with Hospice Analytics, a hospice business intelligence company, and serves as a part-time faculty at Red Rocks Community College where she developed a hybrid curriculum for the nurse aide program for students studying hospice and palliative care. Wagner has been involved with hospice since 1984, serving in educational and/or in executive management roles. She has also been very involved with national and statewide hospice committees and boards of directors. Wagner received an M.B.A. in 1998, an M.A. in nursing in 1984, and her R.N. in 1981. She is a certified hospice and palliative nurse.
Useful Information During Your Stay

Internet Access Instructions
For wireless Internet access: Connect to the Learning Center network. Key: Type in learn me

Emergency Information
The nearest pharmacy is Walgreens on 28th St. and Valmont (2870 28th St., Boulder, CO 80301)
1. Turn SOUTH on Center Green Dr. toward Valmont Rd.
2. Turn RIGHT onto Valmont Rd.
3. Turn LEFT onto 29th St.
4. Take the FIRST RIGHT onto Bluff St.
5. Turn RIGHT onto 28th St. (Walgreens is on the RIGHT)

The nearest hospital is Boulder Community Foothills Hospital, 4747 Arapahoe Ave., Boulder, CO 80303
1. Turn SOUTH on Center Green Dr. toward Valmont Rd.
2. Turn LEFT onto Valmont Rd.
3. Turn RIGHT on Foothills Pkwy
4. Take the FIRST LEFT onto Arapahoe Ave.
5. Take the FIRST LEFT onto Riverbend Rd.

Boulder Restaurants
Nearby Cuisine (<1 mile to WICHE Offices)
Boulder Beer Company**
2880 Wilderness Place, Boulder, CO 80301
Tel: 303.444.8448

Boulder Cork**
3295 30th Street, Boulder, CO 80301
Tel: 303.443.9505

Fresh Thymes Eatery**
2500 30th Street, #101, Boulder, CO 80301
Tel: 303.955.7988

≤1.5 miles to WICHE Offices
Buddha Cafe
2719 Iris Avenue, Boulder, CO. 80304
Tel: 720.565.0506

California Pizza Kitchen**
1711 29th Street, #1180, Boulder, CO 80301
Tel: 303.440.3390

Chipotle Mexican Grill
1650 28th Street, Boulder, CO 80301
Tel: 720.406.0500

Mad Greens
1805 29th Street, #1144, Boulder, CO 80301
Tel: 720.496.4157

Modmarket
1600 28th Street, Boulder, CO 80301
Tel: 720.663.9440

Panera Bread
1855 29th Street #1172, Boulder, CO 80301
Tel: 303.544.1800

Pei Wei Asian Grill
1675 29th Street, #1284, Boulder, CO 80301
Tel: 720.479.5570

Downtown Boulder (>1.5 miles to WICHE Offices)
Aji**
1601 Pearl Street, Boulder, CO 80302
Tel: 303.442.3464

Carelli’s of Boulder**
645 30th Street, Boulder, CO 80303
Tel: 303.938.9300

Corner Bar & Cafe
2115 13th Street, Boulder, CO 80302
Tel: 303.442.4560

Jax Fish House
928 Pearl Street, Boulder, CO 80302
Tel: 303.444.1811

Mediterranean Restaurant
1002 Walnut Street, Boulder, Colorado 80302
Tel: 303.444.5335

Moongate Asian Bistro**
1628 Pearl Street, Boulder, CO 80302
Tel: 720.406.8888

**WICHE Favorites
Walking Distance (<1 mile from WICHE offices)
CHEO Consortium Partners

Flathead Valley Community College
GREAT FALLS COLLEGE
MONTANA STATE UNIVERSITY
Kodiak College
University of Alaska Anchorage
LAKE AREA TECHNICAL INSTITUTE
It’s your world.
Laramie County Community College
OTERO Junior College
Pueblo Community College
Red Rocks Community College

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This product was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

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