# Shining New Light in Assessment Through a New Center for Academic Excellence

UTE S. LAHAIE & AMY J. HESTON, WALSH UNIVERSITY IUPUI ASSESSMENT INSTITUTE SESSION 05J IN MARRIOTT 7
OCTOBER 30, 2023 @ 7 AM

## The Presenters

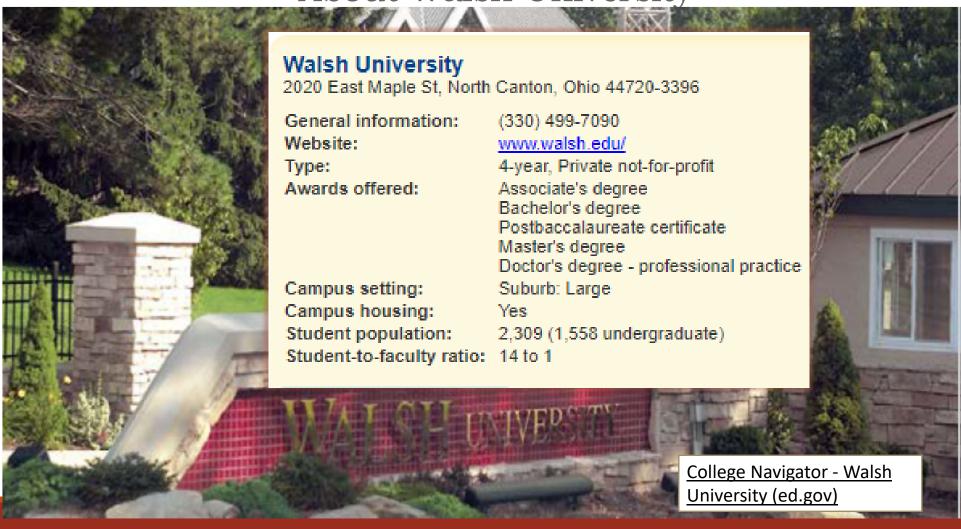
#### Ute S. Lahaie, Ph.D.

- AVP of Institutional Effectiveness & Assessment
- Administrative director of the Center of Academic and Professional Enrichment (CAPE)
- Administrative leader of the University Program Assessment Committee (UPAC)

#### Amy J. Heston, Ph.D.

- Professor of Inorganic Chemistry,
   QM Faculty Liaison for eLearning
- Faculty director of CAPE (Academic Excellence Pillar)
- UPAC Chair since 2022, UPAC Vice-Chair 2021-22

About Walsh University



### **Session Topics**

New Opportunities for Leadership in Assessment

Faculty and Student Leadership in Program Assessment

Alignment with Quality Matters Standards to Promote Student Achievement of SLOs

Assessment and Accreditation

Q&A

## At the completion of this session, you will be able to

1

Identify new opportunities for leadership in assessment and adapt them to your own institution

2

Recognize the unique benefits of faculty and student leadership in program assessment 3

Discover the importance of QM standards in course design to enhance student achievement of SLOs

## New Opportunities for Leadership in Assessment

# Center for Academic and Professional Enrichment (CAPE)

Academic Excellence

Professional and Leadership Development

Scholarship, Publications, and Grants

Leadership Development Intellectual Engagement

- The AVP of Institutional Effectiveness & Assessment is the administrative director of CAPE
- The faculty director of the Academic Excellence Pillar is also the UPAC Chair

Center for Academic and Professional Enrichment (CAPE)

## University Program Assessment Committee (UPAC)

- The AVP of Institutional Effectiveness and Assessment serves as leader of UPAC
- The UPAC Chair is also faculty director of the Academic Excellence Pillar serves as UPAC Chair

- UPAC has a collaborative leadership team (AVP, Chair + Vice-Chair)
- UPAC's 25 members represent academic and co-curricular programs

Academic Excellence and Continuous Improvement



Collaboration



Academic Excellence



Alignment with National Quality Standards (QM)



Assessment and Continuous Improvement

## Foundational Principles

#### New Pathways in Professional Development

Sponsored by CAPE
& Assessment
Committee

Assessment Summits

Workshops

Continuous improvement of the learning environment to ensure

student success

**Assessment Kickoff Events** 

## Faculty and Student Leadership in Program Assessment



#### Introductions



Foundations of Program Assessment



Using Internal and External Surveys as Assessment Instruments



Ensuring Accurate and Truthful Assessment Results



Portfolios as Assessment Tools



Templates and Tools for the Annual Assessment Reporting



Q&A

# Agenda of the Spring 2023 CAPE Assessment Summit:

11 faculty members served as presenters

Center for Academic and Professional Enrichment (CAPE)

#### 2023–24 Teaching and Assessment Kick-Off

Barrette Business & Community Center A & B

#### **AGENDA**

10:00 – 10:10 a.m. | Welcoming Remarks

· Michael Dunphy, Ph.D., Vice President for Academic Affairs

10:10 – 10:50 a.m. | Course and Program Development with the End in Mind: Ensuring Academic Quality Through Academic and Co-Curricular Assessment

- Ute Lahaie, Ph.D., Associate Vice President for Institutional Effectiveness & Assessment
- Amy Heston, Ph.D., Professor of Inorganic Chemistry/UPAC Chair 2023-24
- Nick Morris, Ph.D., Faculty Director of the Blouin Scholars Program

Assessment plays a pivotal role in delivering quality instruction. By designing student learning experiences with the end in mind, educators can design purposeful learning experiences that meet specific educational objectives. In this interactive session, participants will explore new initiatives and share best practices in the assessment of academic and co-curricular programs.

11:00 – 12:00 p.m. | Navigating the Cutting Edge: Forging a Positive Student Impact in the Age of AI

 David Grimes, M.Ed, Senior Instructional Designer & Online Faculty Development Manager, Ashland University



Explore how AI chatbots like ChatGPT are reshaping our classrooms and what role we can play in this revolutionary impact on education. In this dynamic session based on first-hand experiences in the classrooms, uncover strategies to manage generative AI misuse while leveraging the benefits for faculty, instructional designers, and students.

12:00 – 12:10 p.m. | Closing Remarks

- Ute Lahaie, Ph.D., Associate Vice President for Institutional Effectiveness & Assessment
- Amy Heston, Ph.D., Professor of Inorganic Chemistry/UPAC Chair 2023-24



REGISTER HERE



## 2023 Teaching and Assessment Kick-off Agenda



Academic Excellence:
The Journey of Continuous Improvement



Designing Learning Experiences with the End in Mind



**Organizing the Assessment Process** 



Co-curricular Program Assessment

#### Hallmarks of a Well-Developed Assessment Process

The annual assessment process begins **before** classes start.

A **substantial number** of full-time faculty, adjuncts, and staff are involved in the assessment process.

Assessment is **ongoing** and not just episodic.

The assessment process leads to **improvements** at the course, curriculum, and program levels.

## Table Discussion: Learning Experiences

#### Think-pair-share activity

Turn to your neighbor and discuss briefly what learning experiences you planned for a specific course or co-curricular program

- What learning experiences did you design?
- How do these experiences connect to your learning outcomes?



#### Honors Project

Student partnerships in assessment

Honors project 2021-2023

Evaluation of learner achievement in Organic Chemistry I Laboratory

First time a student has participated in STEM assessment, etc.

Student-faculty partnership increased student diversity

- Prepared her for a career as a science teacher
- Fostered diversity in student assessment

#### Poster Presentation:

#### Mid-East Honors Association Conference



#### DESIGNING ASSESSMENT STRATEGIES TO EVALUATE STUDENT SUCCESS IN QUALITATIVE ANALYSIS FOR ORGANIC CHEMISTRY LABORATORY

Myla K. Demko, Dr. Timothy J. Smith, and Dr. Amy J. Heston\*

Walsh University, Division of Math and Sciences, North Canton, OH 44720

#### Abstract

nic chemistry laboratory provides students with the opportunity to gain new knowledge in the fundamentals of chemical reactivity and how to conduct organic syntheses. Therefore, creating laboratory experiences that teach these critical skills is vital to the learning process, particularly for science with a focus on student success in crystallization techniques, gas chromatography, and lab safety procedures. Assessment rubrics were created to measure the achievement of the student learning outcomes, and students in Organic Chemistry I Laboratory were evaluated through two different means. First, visual observation was conducted to determine qualitative success. Then, students were given a set of questions to complete that pertained to the laboratory activities completed that day. When the data was collected, student performance was scored by using a 0-3 points scale. Based on the results, modifications to the labs will be implemented to ensure learner success within this course. Ultimately, this initiative is a critical step in our efforts toward continuous improvement in chemistry and the overall educational programs in the Division of Math and Science at Walsh University.

#### Background

#### The History of Chemistry Education: 1700s - William Smith at the College of District

- + Benjamin Rush Father of Chemical Education
- + Christmis Lectures (1825-1861)
- ◆ Committee of Ten (1892)
  ◆ 1900s Shift in interest
- ◆ Demonstrations, projects, clubs, field trips
   ◆ 1954 Massive curriculum development + Cold War

#### The History of Assessment

- 1912 Ernest C. Noyes.
  1990 National push toward evaluation and assessment
- Assessments today Authentic assessment

#### Crystallization Lab Results

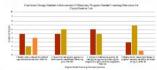
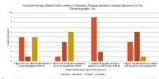


Figure 3: A representation of the data from the Crystallization Lab from both

#### Gas Chromatography Lab Results



#### Safety Results

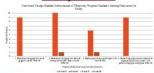


Figure 5: A representation of the safety data from both groups

#### Conclusions & Future Work

- ◆ Proper lab safety consistently followed
- Demonstrating proper lab techniques students scored mostly at or above benchmark
- ♦ New material and concepts students struggled the most

#### Lab Modifications:

- ♣ Design homework or assignments given to explain concepts
- ♦ Creating online practice questions
- ♦ Show demonstration of concepts (physical, video)

#### Observation Chart and Rubric

gion to the native post appeals to observable to importate maganita schools to salight solds. PO(10 t). Quantities Tell the richeles recently count the reasonable or the sold maganitate and the sold maganitate and the sold products and the sold three liquid is wish! Securities assumes assumes as the sold of the sold assumes as the sold of the sold assumes as the sold of the sold assumes as the sold of the sold as assumes as the sold of the sold of the sold of the sold of the assumes as the sold of the sold of the sold of the sold of the sold of the sold of the sold of sold of sold sold of sold of sold of sold of sold of sold of sold of sold sold of sold of sold sold of sold sold of sold of so	Schoper to implice at the service of a part of the service of liquids. This is the colors of liquids of the service of liquids. This is the service of the s	well a statem for depring regar- versh problem and another to agreemen deprind 19(1) to Quantities Then the statem de- terment regards and deprind the restriction and deprind the restriction with and agreement assessing
Owners Supin proper descript belonges and all PELS or Question Transi descriptor will be constructed as I will work stop classic sprinted as	Options: Simplify to expense county is particular to expense to continue to continue to continue to continue to continue to continue to the option of the continue to the cont	Outcome Description do spropriet ou Pyrights on the left (Fig. 2) or the
	in change to investment and in the change of	Content of the conten

Figure 1: Observation sheet used to record students during their lab

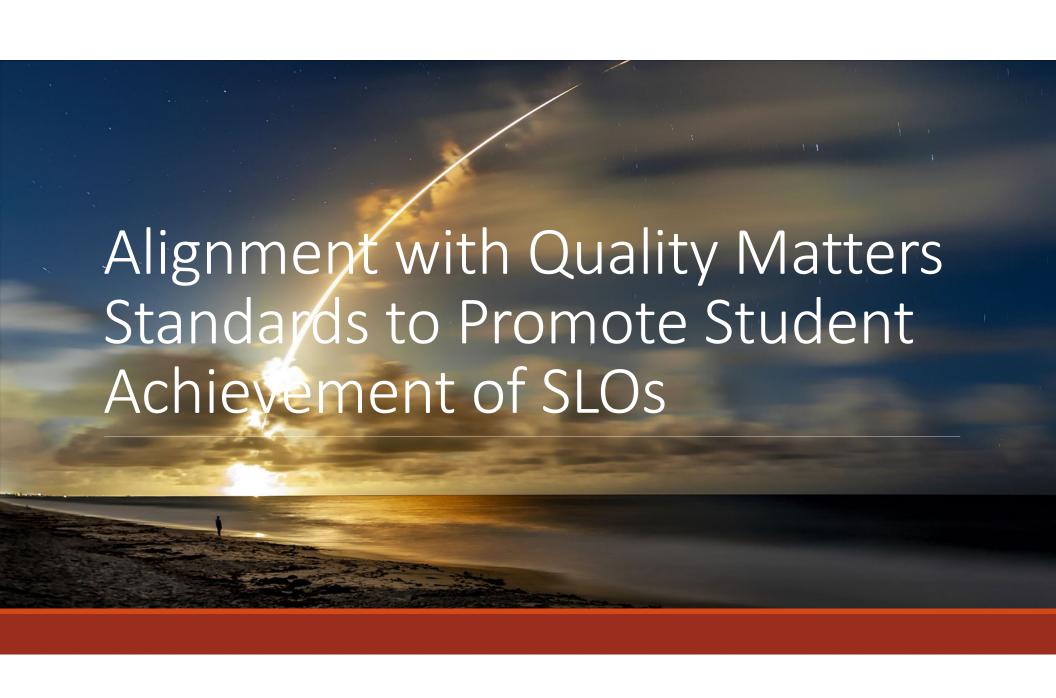
Beer 209000	Please Mylls Decili	0 6 Dt	Street		
Course Namber CHEM (4)					
Title of Course Organi Clar	many 1 Laboratory				
Title of Essen Arriganeses A	enter Lat Active - Crystalius	000			
Description of Artifact Peri	Cali Questions and in Evaluation is	ce:	-		
990.010, 99	BOR TEON TROM T	MLO II	.4.7		
RPS commit: 1 + Disco sort so	contiction standard phone 10% con- ent the manhool/below 17% consent	0.0-X	Minds in prode	Service Ser (PA	det
BPs content; I = Then not not or an exercit given.  "List may it evidences of re- commet, understands a conce- dence-instang ability to ma- prolition, against horseledge.  It librarily when a minimum.	or the mandant/freier TPS corner promotifield) and provide a a classication insortings of pt. two critical fluiding by poor the components of a so more as column, or a	3	Sinte male	der star	*
875 Connet; 1 = Glors set no a de server giron  "Lier sep il mildennes all si commonglett for each medie common, uniferitadis a cinco demonstrating delity to more problem, aggioris intervisiogi à Librarily sites a militana co concentration. PEG-5-1  3. Chromer in mediana common	or the mandantification 17% commit amount plats and provide a a classical part and facility by part for composition of a committee a solution, see ). In mandal approximate plats are mandal approximate plats are mandal approximate plats.	min,1- n,4-18	Silven errole	for star are (PA	
60% county; 1 = Then not no to to convey glow to the server glow — List any 2 evidences of a conveyinghe for each studie control, understands a conce demonstrating adulty to ma- profiles, applies tomologie 3. Liestly show a colorange concentration. PEC-5-4] 3. Operate the meling poor measurements of seeling poor measurements of seeling poor 3. Liestly show the seeling poor measurements of seeling poor 3. Liestly show to be a 3. Liestly show to be a 4. Liestly show to be a 4	or the mandard/below 17% common intermedially and provide a in discountrates insortings of it, ones critical fluiding by gain the composition of a to reacción a solution, its ) but marche in orbital surroute or PSO(1-44	9	3	ar (Pa	1

Figure 2: Rubric for assessing PSLOs #2 and #4 during the Crystallization experiment performed in the Organic Chemistry I Laboratory.

#### Acknowledgements

- · Walsh University
- · Honors Program and Faculty
- . Friends and Family





## QM Professional Development

29 Completed Applying the QM Rubric (APPQMR): QM's flagship course

#### Additional Trainings and Recognitions

- 7 Peer Reviewer Certification
- 1 Master Reviewer Certification
- 1 Teaching Online Certificate
- 2 QM Coordinator Training
- 10 QM Certified QM Courses

#### Walsh University's QM Certified Courses



Higher Education 2020









**HIST 103** 



**SOC 311** 

Dr. Nina Rytwinski

**Dr. Michael Petrochuk** 



Dr. Laci Fiala

**MBA 721** 



**Dr. Andrea Price** 



Dr. Kelly Mezurek

**NURS 220** 



Dr. Amy Heston



Dr. Yanmei Xu

**CHEM 120** 



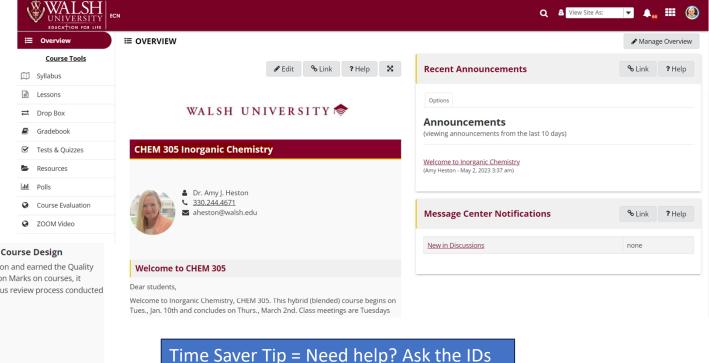
**NS 114 NS 215** CHEM 305 (hybrid)

This certification mark recognizes that this course met Quality Matters Review Standards.

#### **New Learner Activities**

#### QM General Standard 5: Learning activities promote the achievement of the LOs.

- Polls
- Practice Problems
  - immediate feedback
- Class Discussions
- Group Activities



Course Recognition and Certification for Quality in Course Design

CHEM 305: Inorganic Chemistry was designed by Dr. Amy Heston and earned the Quality Matters (QM) Certification Mark. When you see QM Certification Marks on courses, it means they have met QM Course Design Standards in a rigorous review process conducted by QM-Certified Reviewers.



This review provided independent validation of the quality, learner-focused course design through use of the Quality Matters Rubric and associated Standards, which are based on research and best practices. Quality Matters (QM) is the global organization leading quality assurance in online and innovative digital teaching and learning environments.

Power of Partnership: Attend their office hours





#### Academic Excellence

High standards for course design makes a wide impact beyond the classroom:

- alignment with QM standards for course design
- assessment efforts to strive for continuous improvement in your program
- annual program assessment report (APAR)
- institutional criteria for accreditation



## Institutional Accreditation Requirements

#### HLC Criterion 4.B

The institution engages in ongoing assessment of student learning as part of its commitment to the educational outcomes of its students.

The institution has effective processes for assessment of student learning and for achievement of learning goals in academic and cocurricular offerings.

The institution **uses the information** gained from assessment **to improve** student learning.

Processes and methodologies to assess student learning reflect good practice, including the substantial participation of faculty, instructional and other relevant staff members.

## CAPE Leadership and Accreditation Requirements

As a part of the Accreditation Year 4 Assurance Update, faculty and staff across campus collaborated with CAPE and UPAC leaders to update information related to:

Teaching and learning

Student success

Academic quality and rigor

Program assessment

This collaboration between CAPE and UPAC leaders, faculty and staff contributed to a successful reaccreditation.





#### Contact Us

#### Ute S. Lahaie, Ph.D.

- Associate Vice President of Institutional Effectiveness and Assessment
- Walsh University
- Email: ulahaie@walsh.edu

#### Amy J. Heston, Ph.D.

- Professor of Inorganic Chemistry & QM Faculty Liaison for eLearning
- UPAC Chair 2022-23, UPAC Vice-Chair 2021-22
- Email: aheston@walsh.edu

#### References

- Banta, T. W., & Palomba, C. A. (2015). Assessment essentials: planning, implementing, and improving assessment in higher education. San Francisco: Jossey-Bass & Pfeiffer Imprints.
- Barkley, E. F., & Major, C. H. (2016). *Learning assessment techniques: a handbook for college faculty*. San Francisco, CA: Jossey-Bass, a Wiley brand.
- Higher Learning Commission Resource Guide. (2023, April). Retrieved 10/13/2023, from https://download.hlcommission.org/HLCResourceGuide INF.pdf.
- Martinez, A. and Christnacht, C. (2021). Women Making Gains in STEM Occupations but Still Underrepresented. US Census Bureau.
- Simunich, B. (2022). The Future is Flexible: Quality Matters Offers Insights on New Research Findings.

  Acadeum
- Suskie, L. (2018). Assessing student learning: A common sense guide. Jossey-Bass.
- Quality Matters (2022). Seventh Changing Landscapes in Higher Education Report (CHLOE 7).
- Quality Matters Rubric Committee (2018). *Quality Matters Higher Education Rubric Workbook: Standards for Course Design*, 6<sup>th</sup> edition, Maryland Online, Inc.