Northwestern University's Experience in Leveraging Bluepulse, a Formative Feedback Technology, for Continuous Instructor Development

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Overview

- Rationale and Background
- Bluepulse at a Glance
- The Bluepulse Pilot at Northwestern
- Instructor Story
- Wrap-up & Questions







Rationale and Background

Office of the Registrar
Searle Center for Advancing Teaching and Learning





About Northwestern University

- 3 campuses
 - > Evanston, IL
 - > Chicago, IL
 - Doha, Qatar
- 2,500+ courses evaluated per quarter across 11 schools (not including Medical), administered through Blue by the Office of the Registrar













End of term Student ratings @ Northwestern

- Not immediately actionable
- Not focused on students' experience of learning



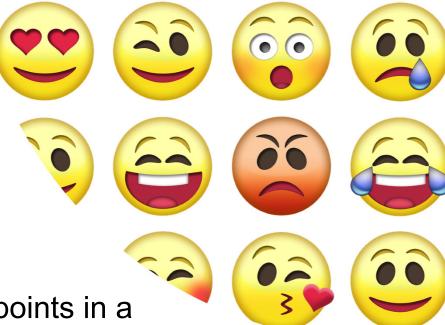












Student feedback collected at different points in a course is beneficial for both faculty and students (formative feedback)











They can help....

- Faculty reflect critically on their own teaching and their students' experience of learning
- Faculty improve their teaching in the shortand long-term
- Promote interaction between the instructor and students

- Encourage students to think critically about their own experience of learning (including their own strengths, gaps and weaknesses)
- Increase student motivation, engagement and sense of investment in the course
- Improve students' sense of diversity, equity and inclusion
- Improve students' help-seeking behavior
- Enhance students' sense of fit and belonging
- Ensure that all students have a voice in the class.





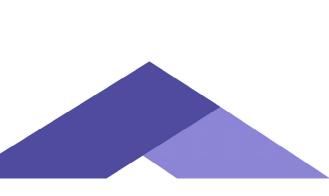






Formative Feedback Technology

- Live social feedback
- Two way communication
- Confidentiality
- Integration with LMS
- Mobile friendly





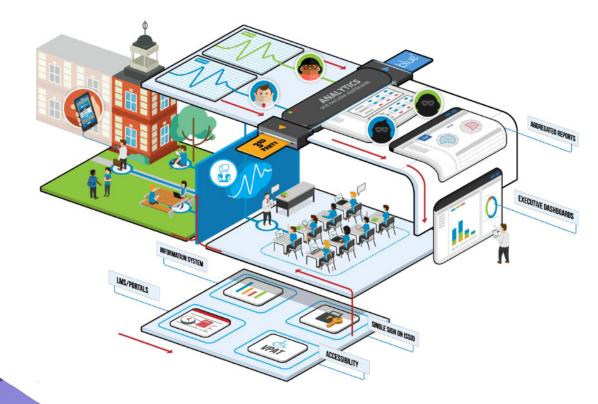








How it works





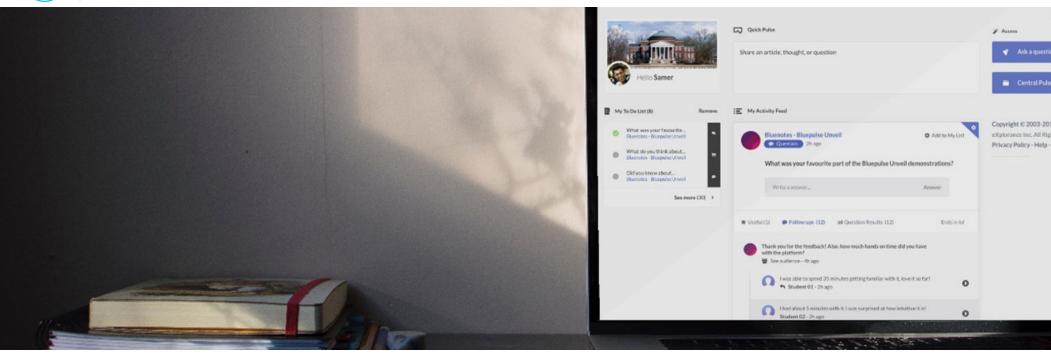




The Bluepulse Pilot @ Northwestern

Office of the Registrar
Searle Center for Advancing Teaching and Learning
Explorance





Spring 2019 Pilot

- 8 courses and 8 faculty:
- Humanities, Social Sciences, and STEM fields
- Focused on sizes of 50 and above
- 1 online course, 1 non-credit course









Orientation and Pilot Structure

- One on one or small group instructor onboarding
 - Watch demo video (recorded by Nitin!)
 - ➤ Talk through usage of the tool from the student and instructor side, and through CANVAS
 - Provide recommendations (common types of usages and question formats, include in syllabus, relay expectations to students, etc.)
- Let them loose
- Mid Term and End of Term surveys













Questions Asked

Lectures -

- What could be improved about [the lectures]?
- What concepts piqued their interest the most?
- Was the material in a [specific lecture] clear?

Overall course

so far

- Favorite and least favorite aspects of the course
- Is there anything particularly difficult or unclear [so far]?
- Pace of the course?

Pre-exam review

- Are there any items they would like on the review before the exam?
- Are there any topics or questions from the [review session] that are still unclear?

Instructor's _ approach

 Is there anything I could be doing better or more helpfully?









Positive Instructor Experience

- Instructors found the BluePulse tool easy to use with the mean of **5.63/7** (1= Extremely Difficult **to** 7= Extremely Easy).
- 3 instructors specifically noted that they liked the "anonymous" student response feature of the tool.
- It is an easy tool similar to posting anything on social media...









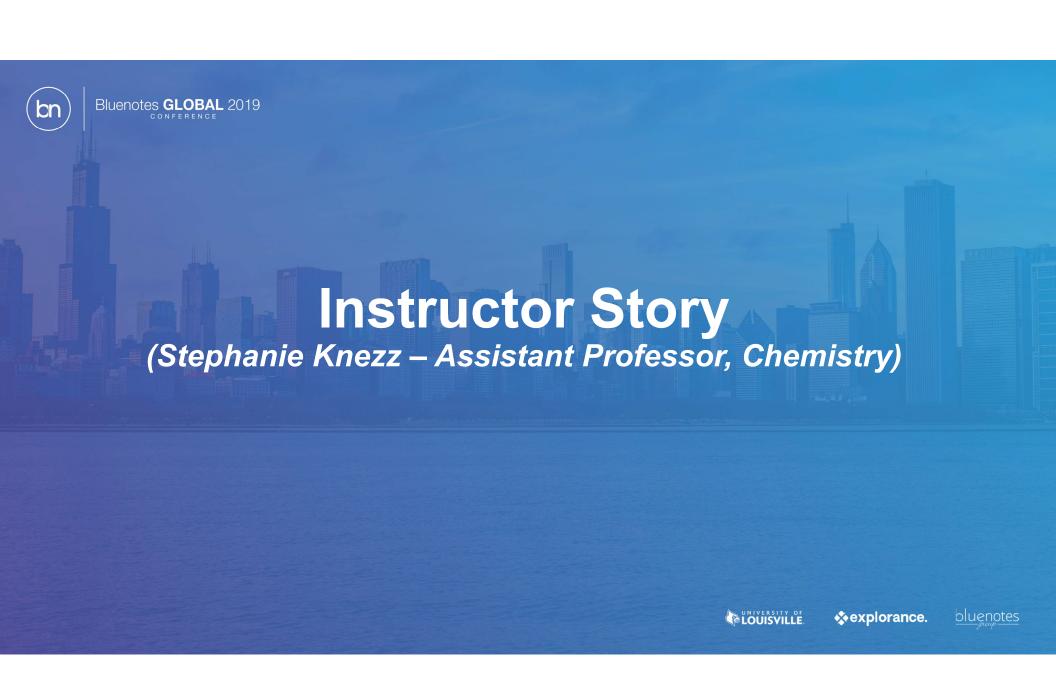
Some Challenges

- Some hiccups in figuring out how to view student follow ups and how to share results
- Limited LMS integration
- Should we allow the non-confidential option?
- 1 instructor noted that only a very small percentage of their students used the tool even though they were encouraged to do so (tech fatigue?)





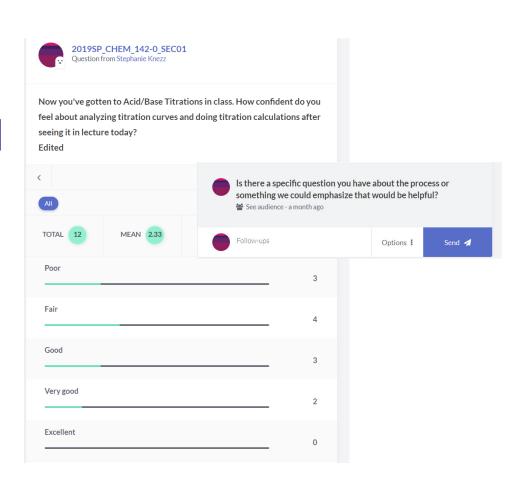






Anonymous polling and following up



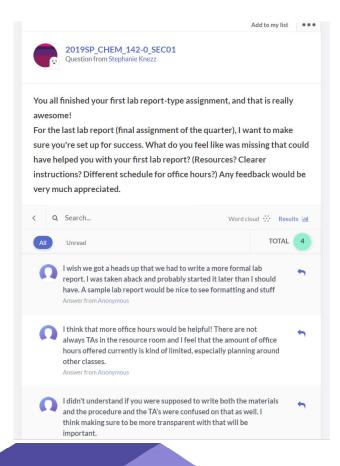












Requesting Feedback from students

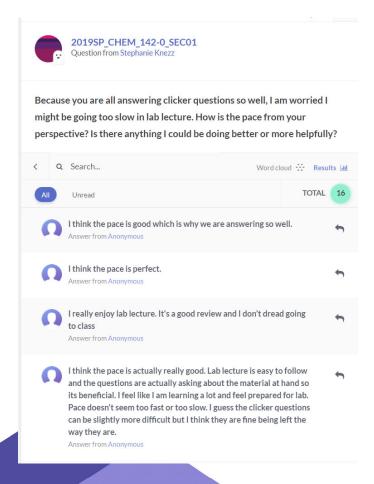
I found that the resources for lab report guides and helpers were all very spread out, and you had to look in many different modules and posts to get all the lab information. If there was one place for all formal lab report guides I think that could be helpful Answer from Anonymous



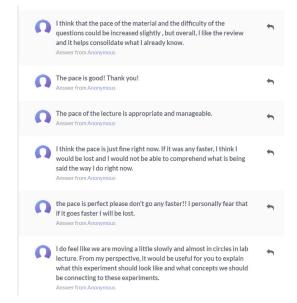








Requesting Feedback from students



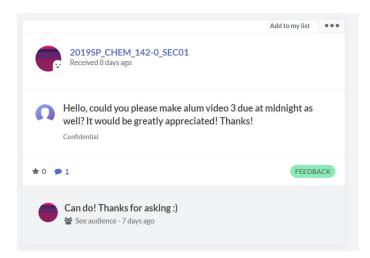


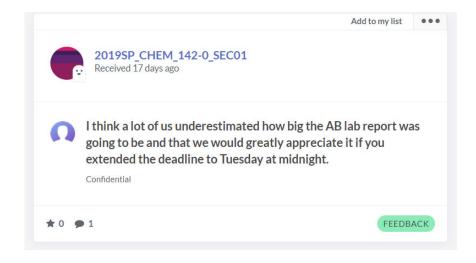






Anonymous requests from students















Presentation @ Northwestern University

- Introduction of tool and pilot
- Demo and discussion
 - Interest in using Bluepulse for cohort groups
 - Feasibility for advising?



TEACHx sparks innovation in teaching and learning by showcasing experiments and celebrating successes in a community-oriented environment.

This annual symposium brings together instructors, students, learning designers, and technology specialists to make connections, begin collaborations, and learn from their peers.











Next Steps

- Analyze student and instructor survey results to determine best use
- Preparation for future pilot using new/improved functionality
- Usage of Question Bank?
- How does this fits in with Northwestern's process of reevaluating the evaluation process?









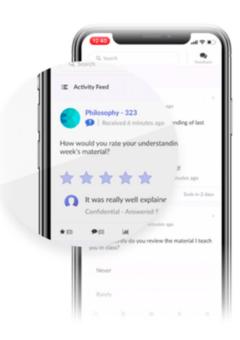




Social Network for Educational Experience

- Engagement and Social features
 - Discussions
 - Gamification
- Embedded Machine Learning capabilities
 - Sentiment analysis on feedback
 - Redacting



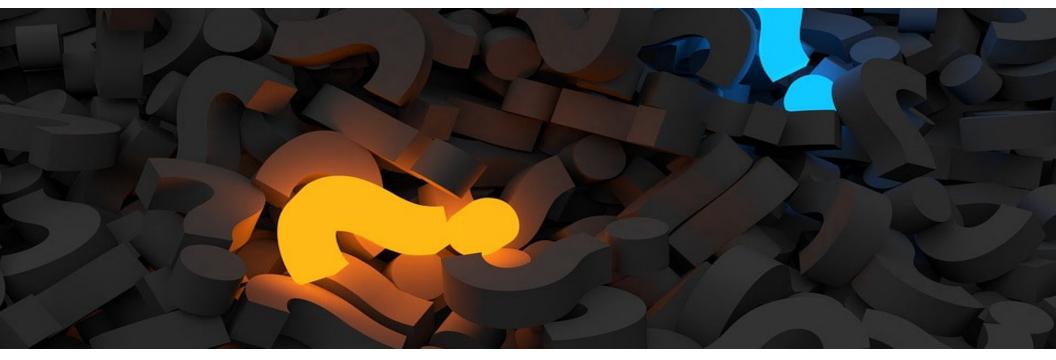












Questions?





