

In what ways has the workshop been meaningful or valuable to you?

student 1	Provided me the chance to understand that my ideas + comments are valued.
student 2	Meeting likeminded individuals who are committed to improving undergraduate biology education has been energizing and inspiring. I leave this workshop much more hopeful about the possibilities for change and improving the way our students learn.
student 3	Introduced me to many new ideas & approaches. Gained insight into perceptions of education outside my own institution.
postdoc 4	networking
instructor 5	Learned what metacognition is and some strategies to help students understand their learning. Better appreciate the need to define learning and match my teaching methodologies to those goals.
instructor 6	The workshop promoted greater regional interactions to share common problems and brainstorm solutions. I felt inspired by our keynote speakers.
instructor 7	The most meaningful part of the workshop for me was working with 2 members of my own department & learning the extent to which they too desire to affect the same pedagogical changes as me. Perhaps coming together away from the campus and amongst like-minded scientists was what sparked this conversation!
instructor 8	Thank you! Allowed us to come up with a way forward, to move from “we need to do this” to “here’s how we can do this.” Connected us w/ specific colleagues + specific institutions as potential partners.
instructor 9	Provided time and inspiration for the team from our University to brainstorm and big ideas for change in our department. Ability to network with a group of like-minded individuals. Great keynote speakers who provided a lot of good actionable information.
instructor 10	Stimulating conversations about next steps. Broaden consideration of engaging students in considering their learning.
instructor 11	Great team building experience. Inspiring. Excellent keynote addresses. Awesome to be able to talk teaching with other faculty.
instructor 12	In the last 48 h, I have made more progress towards conceptualizing how to design + implement innovative and effective pedagogy than in two years of pondering about it on my own.
instructor 13	Help formulate an action plan for our institution and learn about efforts at a few inst. in the network.
instructor 14	Developing a departmental plan; offering suggestions + resources to colleagues @ other schools.
instructor 15	Excellent workshop; good balance of time within institutional teams and hubs, and with the broader group – Great keynotes –
instructor 16	Dedicated time to develop a concrete plan for our departmental assessment.
instructor 17	Great weekend – very well organized in general – thanks! Met great, helpful people that I can tap for resources + expertise. Wonderful talking to people w/ same goals + challenges.
instructor 18	Sharing this group (PULSE) w students + colleagues. Brainmapping will be useful w colleagues. Starting conversations w similar institutions.
instructor 19	Gathering of educators with common agenda ~ great contacts.
instructor 20	Provided time to work w/ members of my department on a common goal. Supported informal team building. Energizing keynote speakers – good ideas to build on.

instructor 21	We made a great plan that will address an important problem in biology education. Very exciting to get it going. (on reverse side of survey: Thank you for a very productive time!!
instructor 22	Connections to others with similar goals. To make new tools and strategies available. To develop collaborations.
instructor 23	Before the workshop I didn't know about or fully understand the concepts of higher order cognition or metacognition. I think these are great principles to incorporate into my future courses.
instructor 24	Exposure to new ideas/ways of thinking. Opportunity to think broadly/critically about pedagogical innovations. Solid examples of what folks do, improving my sense of the feasibility for myself.
instructor 25	Furthering network contacts within STEM education.
instructor 26	Developing connections to others who have done what we want to do, are trying to do the same thing, or need help with their own institutional issues.
instructor 27	Lay out a framework for implementing best-practice pedagogy + program assessment.
instructor 28	I am relatively new to questions of pedagogy (and a horrible speller) + had lots of questions but did not even have the words to express them – I am feeling very empowered about directing my class + working to improve ed. in my dept.
instructor 29	Discussions within team that we don't often take time for, lots of connections with like minded folks.
instructor 30	Made important connections, gained valuable ideas, plan in place for implementing ideas from conference.
instructor 31	Connections. Chance for our team to bond + share ideas.
instructor 32	Great connections made, contact info exchanged, ideas shared.
instructor 33	
instructor 34	Establishing connections to regional hub members. Providing space and time (and expectations of results!) to work with my team. In exposing the members of my team to the energy and commitment of PULSE.
instructor 35	Fostering communication on V+C. Connections to other people with similar goals.
chair 36	I met/engaged w/ many people whose ideas and enthusiasms were inspirational. I also appreciated the opportunity to communicate earnestly and at length w/ the members of our institutional team, to craft an authentic plan to <u>do</u> something necessary + worthwhile!
chair 37	The exchange of ideas was very useful. I feel like I've been able to add to the toolbox necessary to effectively aid the department in transformation.
chair 38	Big picture of what is involved in change + some good specific strategies. Made some good connections with other institutions. Opportunity to brainstorm + plan with team.
chair 39	I learned about some relatively simple activities that others were doing that we hadn't thought about, but that will provide wonderful opportunities for our faculty and students if we implement them at our institution.
chair 40	Helped me identify what my department must do next and what I must do to facilitate the plan and not be an impediment to progress.
chair 41	It has helped to clarify next steps towards pedagogical goals. I think that we can learn a lot from hub partners + from others in the network. It has been encouraging.

chair 42	Dealing with institutional issue with colleagues. recognizing we are in “good shape”, other institutions haven’t figured it all out either.
chair 43	Great to meet others with common struggles + others with supportive ideas.
chair 44	Reinvigorates me to be surrounded by faculty who share a passion for educating students and being thoughtful about what we, as a community, want our students to know about life science when s/he graduates.
chair 45	It has been great to work w/ a team to think about issues and creatively strategize about concrete steps to make.
chair 46	Making connections w/ other institutions + their faculty for future efforts. Learning for first time about studies of metacognition. Overall, excellent program, organization, facilities + accommodations.
admin 47	I’ve gotten a wealth of ideas for improving STEM education on our campus. I’ve also gained some insight into what leads to successful change + realized that another major initiative on our campus is unlikely to be sustainable without getting the Dean more on board. I’ve also gotten a lot of ideas about positively influencing campus culture.
admin 48	Very glad to know that the work of educational transformation in Biology can be undertaken within a context of support, excitement, expertise and rich resources in this region. Our department need not work in isolation or re-invent the wheel. I appreciated very much how much presenters modeled good learner centered practices.
admin 49	It’s given me a focused example (biology undergrad education reform) that informs a bigger picture problem (STEM education + quantitative skills among <u>all</u> students) and inspired many creative ideas to apply at different levels.
admin 50	Although I am not a scientist, I was made to feel very welcome and I was always included in discussions; my perspective was valued. I agreed to attend the conference without any idea of how or (what) I might make a contribution – but I feel that I did contr.
admin 51	It is good to see the variety of issues and concerns across institutions.
admin 52	Fantastic opportunity to meet like-minded individuals, understand needs of biology educators.
admin 53	
admin 54	Several small scale great ideas to implement immediately. Great to feel like we’re in the same boat as many – problems shared feel lessened.
admin 55	Will use some of the creative problem solving techniques. Also ideas for renewal of other STEM programs at my institution.
admin 56	Very valuable! Broadened perspective + new tools on learning styles + metacognition.
admin 57	Networking, content on creative problem solving, understanding issues faced by other campuses, lots of helpful resources.
58	This workshop allowed our institutional team to roll back our assumptions and biases enough so that we were able to engage in effective communication concerning mission – critical programmatic and personnel needs.