

M | CRLT-ENGIN

Since 2004, the Center for Research on Learning and Teaching in Engineering (CRLT-Engin) has promoted evidence-based practices in engineering that enable students and instructors from diverse backgrounds and social identities to learn and thrive. In response to the COVID-19 global pandemic and the shift to remote teaching, CRLT-Engin collaborated with CAEN and Nexus for the Symposium on Engineering Teaching and Learning, which supported the College of Engineering's (CoE) mission for preeminent engineering education.

2019 - 2020 ANNUAL HIGHLIGHTS

By the Numbers

268
1-ON-1
Services

2,180
EVENT
Attendees

3,415
TOTAL
Participants

REACHED
57%
of all CoE
Instructors

Teaching & Learning Programs

COVID-19 Pandemic Response: Symposium on Engineering Teaching & Learning

Due to the pandemic, CRLT-Engin co-sponsored a 2-week virtual program in May 2020, in collaboration with CAEN and Nexus, to support faculty with teaching in remote contexts. Out of the 15 sessions, 6 were facilitated by CRLT-Engin staff. Over 185 participants engaged in these workshops, webinars, and panel discussions.

92%

of respondents (N=24) indicated that they were likely or extremely likely to attend an event like this in the future.

88%

of respondents (N=23) indicated that they were likely or extremely likely to recommend an event like this to a colleague in the future.

New Instructor Orientations

22
Events

18 Faculty

225 GSIs*

497 IAs*

*Graduate Student Instructors,
Undergraduate Instructional Aides

Experiential Learning Faculty Discussion Series

In collaboration with the office of the Associate Dean for Undergraduate Education, CRLT-Engin co-sponsored this faculty discussion series during the Fall 2019 term to gather perspectives about how to ensure that all CoE students intentionally explore opportunities, engage meaningfully in experiences, reflect on what they have learned, and communicate the value of the core competencies they developed.

CoE New Faculty Programming

CRLT-Engin piloted an inclusive course design session during New Faculty Orientation. New this year, CRLT-Engin expanded its monthly gatherings (typically geared towards a tenure-track faculty audience) to include sessions specifically targeted to the needs and interests of new CoE Lecturer IIIs.



Topics included:
- reviewing student proposals
- reflecting on competencies
- defining what counts



Diversity, Equity, & Inclusion

Inclusive Teaching Website

To create a repository of teaching strategies relevant to the STEM context, CRLT-Engin launched its inclusive teaching website focusing on CRLT's principles of transparency, academic belonging, structured interactions, and affirmation of difference.



480

visits to this website* last year. The site includes STEM specific inclusive teaching examples.

*crlte.engin.umich.edu/inclusive-teaching

Scaffolding Inclusivity in Team-Based Courses Teaching Circle

In Winter 2020, CRLT-Engin launched an inclusive teaching learning community for faculty teaching team-based courses. This teaching circle focused on evidenced-based practices for incorporating principles of inclusivity when designing team assignments, forming diverse teams, teaching teamwork skills, and assessing student teams.

- Participants
 - received a CRLT-Engin consultation
 - revised a course syllabus
 - created an in-class activity or assignment



Towner Prize

The Richard and Eleanor Towner Prize for Outstanding Engineering GSIs rewards creativity and innovation as an instructor. There were 60 total nominees, representing 13 out of 15 programs/departments in the College. Pictured to the right are the 2020 winners. The honorable mentions are: Shamsheer Chauhan (AERO), Maithili Patel (ME), Niloufar Salehi (CHE), and Michael Wang (MSE).

Abigail Azari
CLASP



Michael Hua
NERS



Christina Kang-Yun
NERS



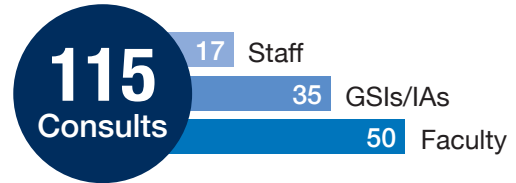
Brian Raeker
ECE



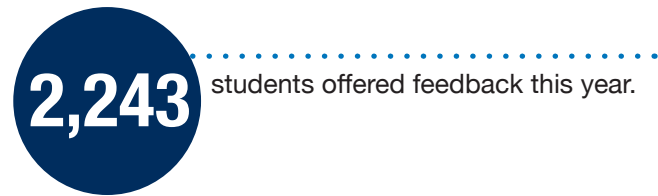
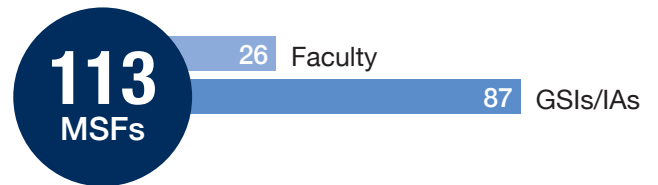
One-on-One Services

CRLT-Engin consultants meet confidentially with instructors to discuss any teaching and learning concerns and gather student feedback.

Consultations



Midterm Student Feedback Sessions



" [My consultant] has engaged me at different levels each year as my own abilities have advanced. She is incredible at listening to me and where my ideas are each semester and then bringing something new to my attention. "

..... BME Assistant Professor