



Workshop Team



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Collaborative Design SIG

Design Education SIG







Collaborative Design SIG

To support and build the community of collaborative design researchers and initiate a collaborative design research agenda.







Design Education SIG

To provide a forum for the identification, sharing and dissemination of best practice in design education.







Format

14:00	Introductions	What is your interest in Collaborative Design Education
14:10	Background	What is collaborative design education?
14:30	Group Discussion	Personal experience
14:50	Break	Time to engage in the network Line
15:10	Workshop Task 1	What are the challenges of collaborative design education?
15:30	Workshop Task 2	How might we overcome the challenges of collaborative design education?
15:50	Summary	Outcomes from the workshop
16:00	Networking time	Please ensure you complete the consent form and evaluation form







Please ensure you have signed in on the registration sheet and consent form







Introductions

- Who you are.
- Your interest in Collaborative design education.

Keep your introduction to ~30 seconds.







Background

What is Collaborative Design Education?

Students work in teams on design projects to:

- Tackle problem solving tasks.
- Create assessed documents.
- Negotiate and make design decisions.







What is Collaborative Design Education?

Joint submission











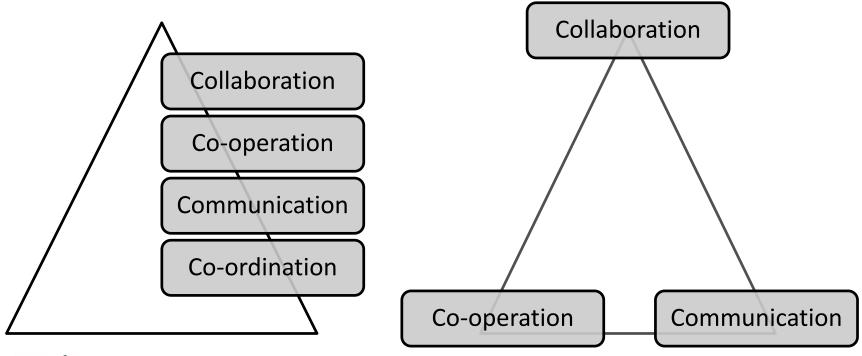
Users







What is Collaboration









Groupwork



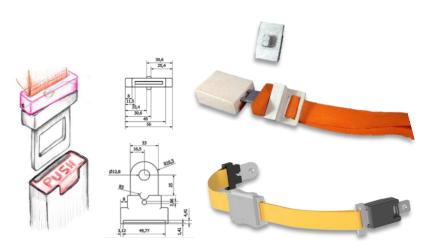


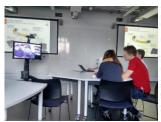




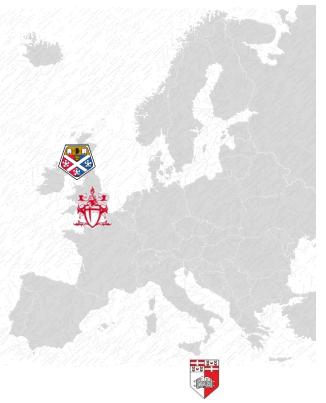


Distributed Design















Industrial Partnerships













Multidisciplinary













- Encourages good motivation for the project.
 - Don't want to let team members down.
 - Encourages informal relationship building.
- Enables more creative outcomes.
 - Greater number of opinions.







- Industrial experience.
 - Tackle more complex problem.







- Peer Learning.
 - Learning with and from each other.
 - Critical reflection on team actions and decisions.
 - Not only learning a toolset or a method.







- learning as a social activity.
 - To improve their engineering design skills.
 - Knowledge exchange or knowledge generation.
 - Transformative learning.







Are students truly collaborating?







Can we ensure individual team members learning benefited from participating in this learning environment?







Can we ensure all team members have achieved the learning outcomes?

How can we evaluate this?







What precedence should we put on learning outcomes?







Moving into industry 4.0, how do we ensure our students are prepared with the knowledge to: coordinate, communicate, cooperate and collaborate with those outside their discipline.







Can we ensure an authentic engineering design environment within University restrictions?







Can we truly represent a multidisciplinary team in an educational environment?







How important are collaborative skills for future jobs? And how much importance should educators put on building these skills.







Group Discussion

What is your experience with Collaborative Design Education?





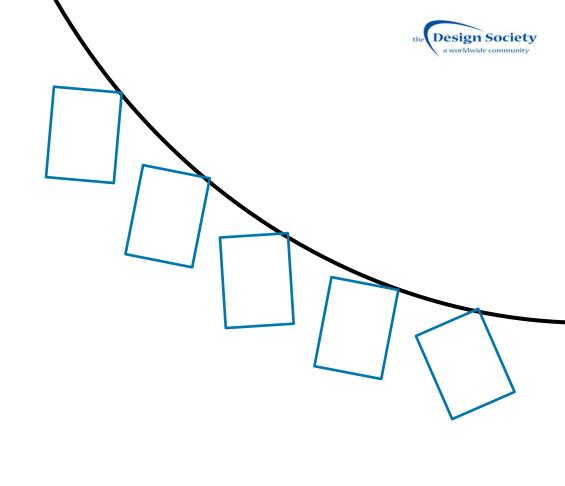
Network Line

Name:

Location:

What skills do you have in collaborative design / design education?

Do you have any requirements of skills in collaborative design or design education?









Groups



Try to form groups with those you are less familiar with.

Try to form a mix of CD and ED SIG in each group.

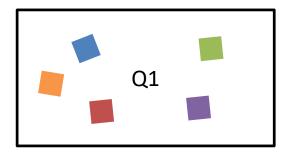






Workshop Task 1











Workshop Task 1

What are the challenges involved with collaborative design education?

Please write these challenges on a post-it note and stick it on the flip chart paper.

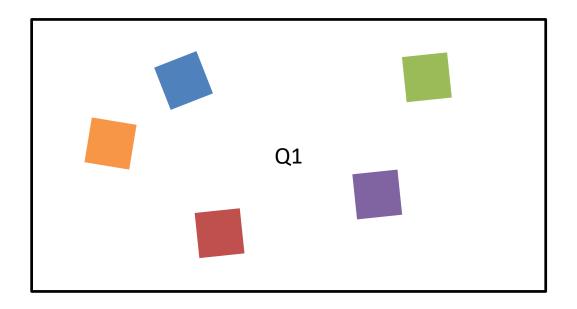
Select your top 3 challenges.







Results









Break







Workshop Task 2

How might we as educators and researchers overcome the challenges of collaborative design education?

Discuss in your teams and write these for each challenge.

Pick 1 top solution for each of the challenges.







Results







Summary







Thanks for Coming

Please take the time to fill in the consent form and feedback form.



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Results







Photos from the day

















What are the challenges involved with collaborative design education?













What are the challenges involved with collaborative design education?

- Three common themes were identified by two groups:
 - Expectation of internal group and external (stakeholder)
 - Assessment of learning
 - Team vs individual skill assessment
 - Matching students with each other







How might we as educators and researchers overcome the challenges of collaborative design education?

- We might evaluate student personalities in order to match teams
- Utilise a booking mechanism to allow students time with academics/stakeholders
- Change the teams as you go? Is this moving towards a more entrepreneurial stance.
- Face-to-face contact is essential to deal with conflicts
- Team building activities are essential
- Regular periodical presentations are required
- Evoking greater reflection in student work and relationships







Thanks for attending the Workshop!



