DET MATEMATISK-NATURVITENSKAPELIGE FAKULTET



bioCEED midterm evaluation committee meeting

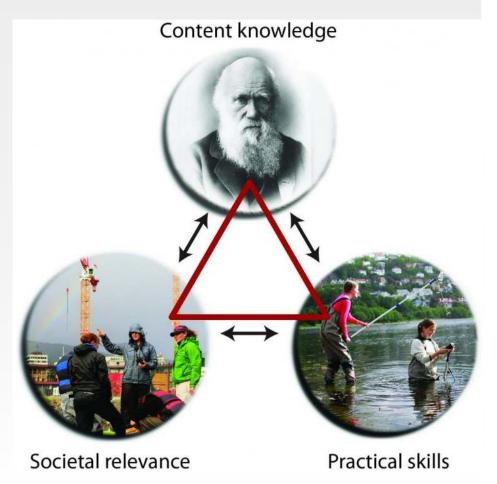
Vigdis Vandvik bioCEED Institutt for biologi Universitetet i Bergen UNIVERSITETET I BERGEN



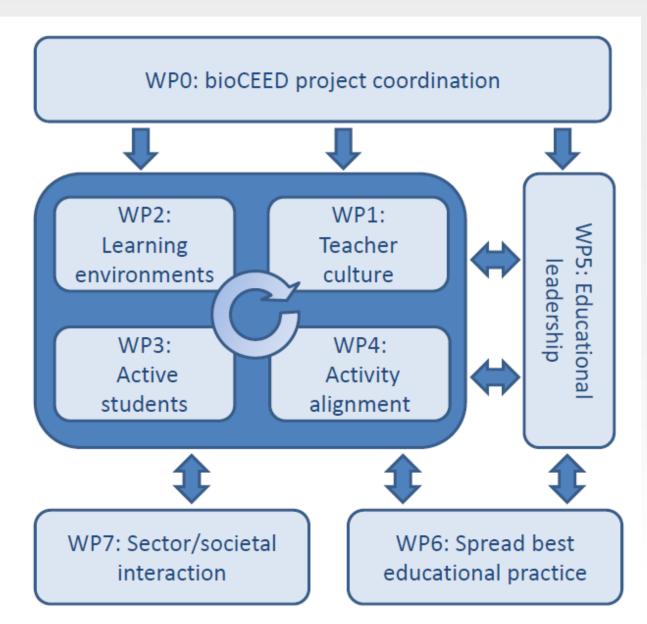


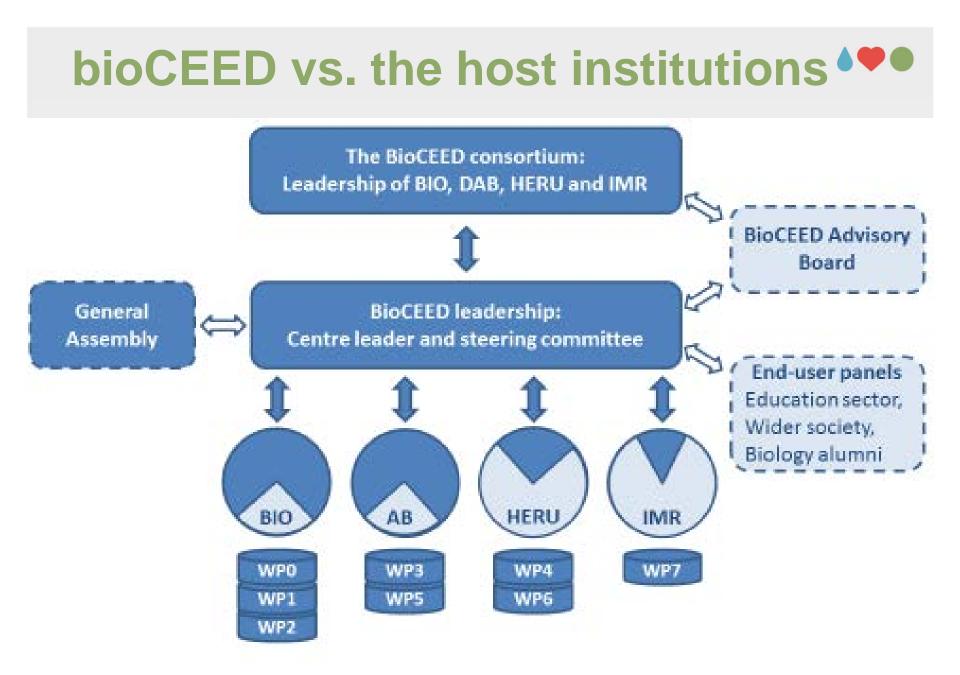
bioCEED's vision: we educate tomorrow's biologists

- Biology emerges in the interface between theory, practice, and the needs of society
- To succeed, we must:
 - Use the triangle
 - Focus on learning
 - Exploit the research culture



Linkages between activities





Student, staff involvement

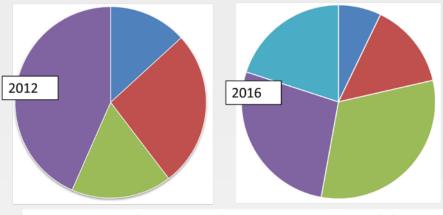
Students	Leading	Doing R&D	Taught
Educational R&D	8	122+	550+
bioCEED courses		66	45
Student to student	11	29	100+

Staff	Leading	Doing R&D	Taught
Educational R&D	35	36	
bioCEED courses			31 Profs 18 PhDs

Courses	Doing R&D
Educational R&D	25*

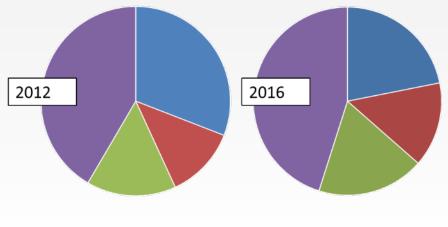
*but see next page...

Student, staff involvement



lecture only
Lecture+group/seminar
Lecture+group/seminar+praticals
Lecture+practical
Seminar/TBL/Practical only

Fig 3. Teaching methods (occurrence) used in all BIO (Department of Biology, UiB) courses in 2012 (left, 68 courses) and 2016 (right, 70 courses). Source: course descriptions and ILOs.



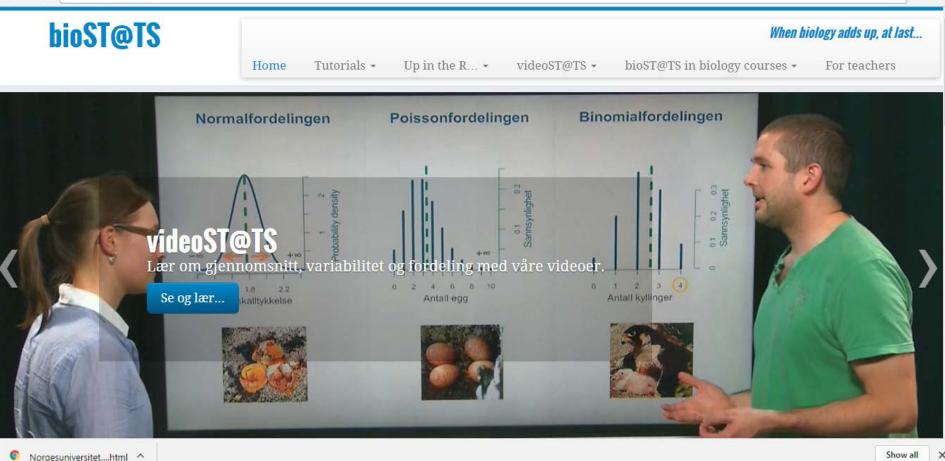
Lectures Seminars Lab work Field excursions

Fig 4. Teaching methods (hours) across bachelor courses in 2012 (left, 5 courses) and 2016 (right, 5 courses) at the Department of Arctic Biology, UNIS.



Linking disciplines

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Show all ×

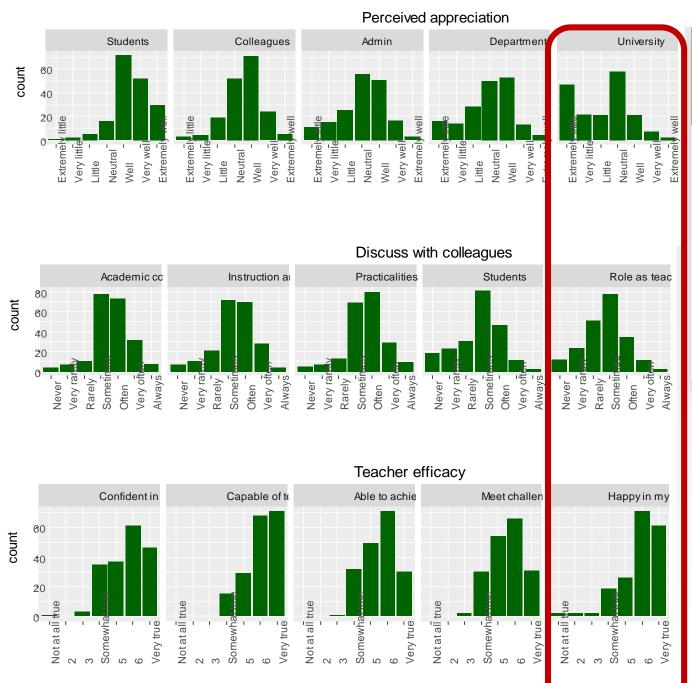
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Norgesuniversitet....html ^



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The bioCEED survey 9 biology educations 752 students 231 teachers 32 administrators >100 companies 231 biologists

(Hole m.fl. 2016)

Baseline data: What did the professors say?

 $\mathbf{A} \mathbf{P} \mathbf{O}$

«I miss a forum of peers where we can exhange experiences and discuss about teaching and supervision. I think we have a lot to learn from each other. I have suggested this many times locally, but there is little interest from collegues and leaders»

«There is not enough time to work on our commitments and challenges together – we work alone on our own»

«My experience with collegues and leaders on sharing/giving feedback: no one can be bothered. We leave everything to individuals – and they either give up or try to make the best of things, but this comes at the expense of time for research (which is all that counts)»

«New teaching methods would be interesting to learn, but there is rarely time for this. So I try to learn from my own experience»

(Hole m. fl. 2016)

Building a SoTL culture bottom-up!

- 1. Set common goals
 - Inspire and promote change
 - Support & value development
 - Visible leadership

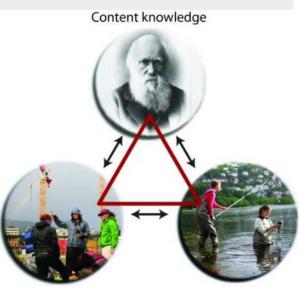
2. Make collegial spaces

- Courses, workshops, seminars
- R&D-projects

3. Develop common language

- Let's read!
- Document & share
- Disseminate, discuss!





Societal relevance

Practical skills

The Society for Research into Higher Education

Teaching for Quality Learning at University Fourth Edition



John Biggs and Catherine Tang



Where to form here?

- Alignment
- Mainstreaming
- Project culture & educational R&D





University science professors preach a gospel of seeking truth through data and careful experimentation, yet when they walk into a classroom, they use methods that are outmoded and ineffective.

The overwhelming fraction of undergraduate science courses are taught by a professor lecturing to students, even in the face of many hundreds of studies showing that alternative teaching methods demonstrate much greater student learning and lower failure rates.

Carl Wieman 'Stop lecturing me', Scientific American, August 2014

The two academic cultures:



Researcher

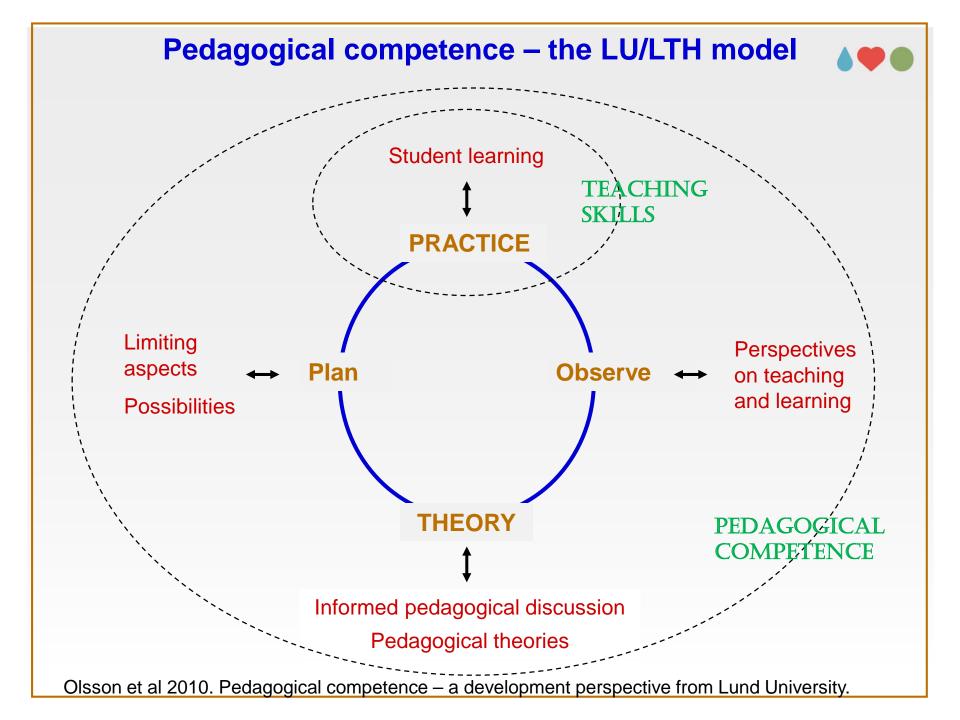
- Research groups
- Social built on trust
- Collaborate to exploit complementary strengths
- Continuous development knowledge transfer
- The scientific method
- Share findings open
- Write, document, publish
- Peer review
- Follow the literature
- Make use of new methods, new technology





Teacher

- Alone in front of the class...
- Distribute tasks loneliness
- Everyone does everything
- 'Flip over & start again'
- 'Experience'
- Own experience closed
- All documentation personal
- Student evaluations
- Trained when appointed (at best)
- Conserve methods: the lecture!



A culture for analysis...





A culture for debate....



MORGENBLADET

AKTUELT IDEER KULTUR BØKER PÅFYLL PORTALEN

DEBATT / AKADEMIA 00:00 - 17. juni 2016

En kultur for utdanningskvalitet

Professorens to personligheter, forskeren og læreren, må finne sammen. Og vi må skape inkluderende felleskap for læring. Slik bygger vi fremragende utdanninger.



 $\overline{}$

Det står visst ikke så bra til på landets universiteter og høyskoler. Utredninger, det årlige Studiebarometeret, studentorganisasjonene, og personlige vitnesbyrd i mediene tegner et dystert bilde av en studiehverdag preget av dårlig kvalitet, irrelevant lærestoff,

Bergens 💐 Tidende BT Magasinet Sport Kultur Meninger



KOBNETIKK: Unifilingen auteimologi og utstyr har i Ren grad bidraft til endringer ut ever visse kosmetiske tilpasninger i forelesni ARKIVEDDC: ANETTE KARL SENIET

Vi bør gjøre noe med undervisnin

Studenter vil ha forelesninger, og at de legges ut på nett. Men hva da – egentlig?

ARILD RAAHEIM Protessor, Det psykologiske fakultet, Universiteitet) Bergen 30 mar2016 05 00, oppdskel 28 mar2016 15 02 ØYVIND FIK SEN, LUCAS JENO.



KVALITETSMELDIN

Våren 2017 skal regjerir frem en stortingsmeld

kvalitet i høyere utdar

Ambisionen er å stimu



A culture for debate....

Khrono[®] Ny innsikt. Hyer dag.

Det vi studenter trenger fra dere undervisere For å lykkes må du bruke forskerhodet ditt i undervisningen, ikke entertaineren. Ragnhild Gya Masterstudent, UiB, og

studentrepresentant i bioCEED

PUBLISERT TIRSDAG, 31. JANUAR 2017 - 10:16 - OPPDATERT TIRSDAG, 31. JANUAR 2017 - 10:16 6 (/debatt/en-students-perspektiv-pa-meritering-av-undervisning#disqus thread)

Det vi studenter trenger fra dere undervisere | Khrono

3/20/2017



RAGNHILD GYA Masterstudent, UiB, og studentrepresentant i bioCEED

Meninger · Merittering. Masterstudent Ragnhild Gya ved Universitetet i Bergen slår et slag for merittering av gode undervisere.

I den siste tiden har undervisningskvaliteten på universiteter og høyskoler, og særlig meritteringsordninger for fremragende undervisere, blitt mye diskutert i media. Det har stort sett vært professorer, politikere og de som står bak disse ordningene som har uttalt seg om saken. Jeg tenkte det var på tide at vi studentene fikk en stemme i debatten.

Søk

So – what do the professors say?

«Now I am more conscious of the interaction between course content, learning activities and assessment. I understand that a well-considered course description can work as a tool. Earlier I thought of this as a purely administrative exercise – more than a useful one»

«The course made me think differently about my teaching»

«Writing a teaching portfolio was especially useful, as it made us reflect on our own teaching practice»

«Working in groups with people from other sections helped us see teaching from different perspectives, and we had some useful experiences and new acquaintances»

Summary & strategic outlook



- How is a collegial teacher culture built?
 - Common goals, meeting places, language...
 - Realistic but exciting projects!
- What is the role of instituions?
 - Inspirator, motivator, support staff, strongman?
 - To 'see' the teaching, and the teachers!
- How can we get our daily SoTL dose?
 - Light lighthouses, move mountains....
 - Talk about it! ... internally, eksternally, little & large











