



Nytt tankesett med SFU

Oddfrid Førland
bioCEED - Senter for framifrå utdanning i biologi



Sentre for
fremragende
utdanning

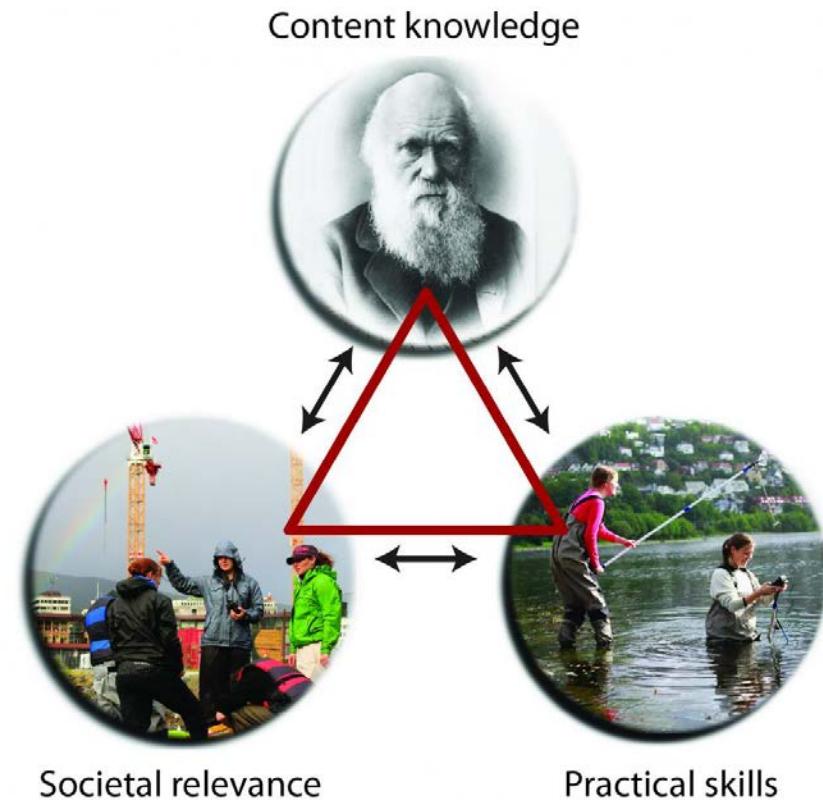




Visjon:

bioCEED skal utdanne morgendagens biologer

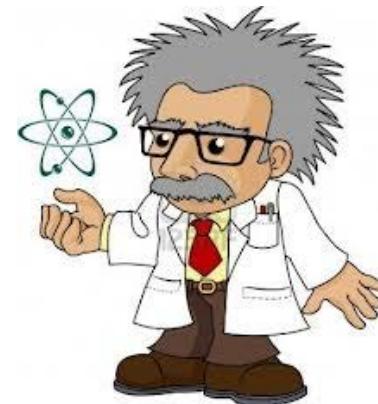
- Biolog(i)en oppstår i *spennet* mellom teori, praksis, og samfunn
- **For å lykkes må vi:**
 - Ta ‘trianglelet’ i bruk!
 - Fokusere på læring!
 - Utnytte forskerkulturen!





Dei to akademiske kulturane: forsking

- Forskingsgrupper
- Sosiale felleskap – tillit
- Samarbeid, utnytte komplementære styrker
- Kontinuerleg utvikling og overføring av kunnskap
- Vitskapleg metode
- Dele funn med andre – er opne
- Skrive og publisere nye funn
- Kollegavurdering
- Følgje med i litteraturen
- Ta i bruk nye metodar, ny teknologi



undervising

- Aleine framfor kateteret
- Fordeler oppgåvene – einsemd
- Alle gjer det same, alle gjer alt
- ‘Snu bunken’
- ‘Erfaring’
- Eigne erfaringar – er lukka
- Alt går i skrivebordskuffa
- Studentevalueringar
- Ped.sem. ved tilsetting
- Konserverar metodar, ‘Forelesinga’



bioCEED inspirert av Lunds Universitet (LTH):

So, we are aiming for:

A cultural shift concerning Teaching & Learning

Inspired by the research culture – Scholarship of Teaching and Learning

The diagram shows two stages of a cultural shift. Stage 1 (left) is labeled 'Teaching' and describes it as private, with no peer review or documentation. Stage 2 (right) is labeled 'Teaching' and describes it as collegial, peer reviewed, and documented. A large arrow points from Stage 1 to Stage 2. Above each stage is a circular graphic containing several yellow smiley faces, with dashed arrows pointing from the smiley faces towards the text boxes.

Teaching

- private
- no peer review
- no documentation

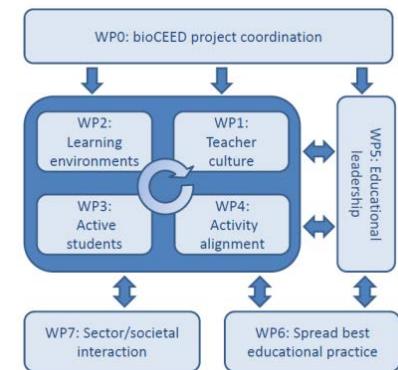
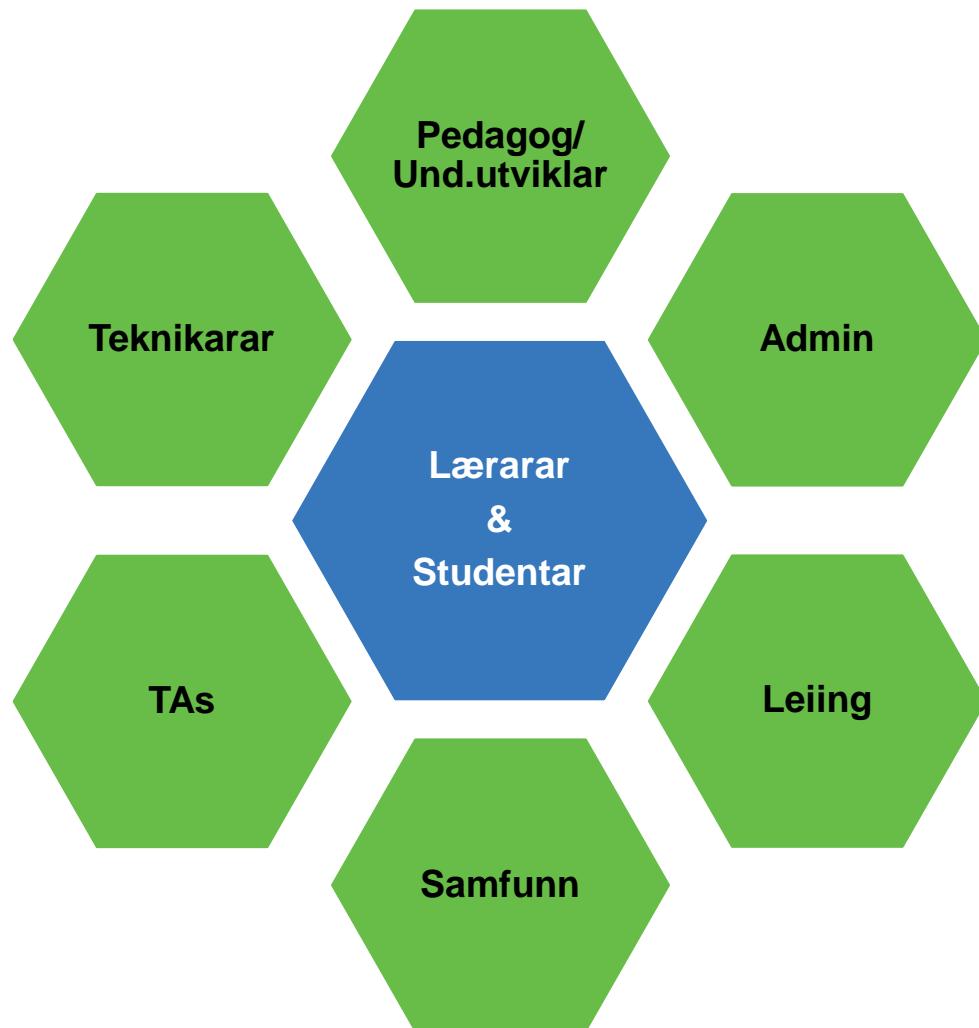
Teaching

- collegial
- peer reviewed
- documented

The seal of Lund University, featuring a circular design with Latin text around the perimeter and a central figure holding a book and a staff.

(Mårtensson, Roxå och Andersson, Lunds universitet)

Alle må med!



Building the team



Felles mål – felles språk => fellesskap og utvikling

Studentar meir involvert & informert

Lærarar* meir involvert & informert

Leiing meir involvert & informert

Ped. ekspertar meir involvert & informert

Administrasjon & teknisk stab involvert & informert

Samfunnet meir involvert & informert

*og stipendiatar/undervisingsassistentar

Å byggje kvalitetskultur fra grunnen:

1. Sette felles mål

- Inspirere og fremme endring
- Støtte & verdsette utvikling
- Synleg undervisingsleiing

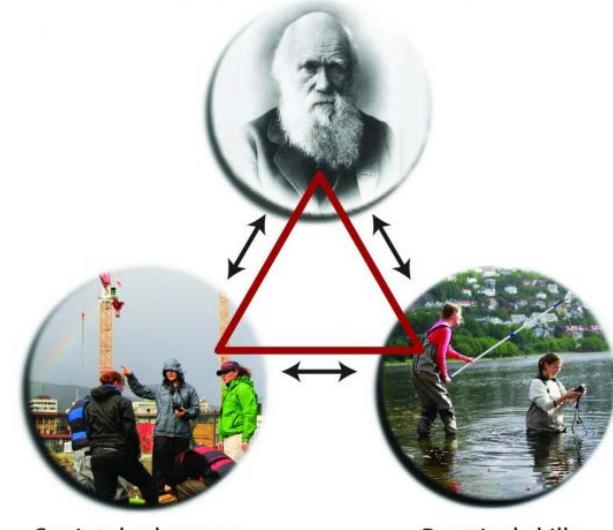
2. Lage kollegiale møteplasser

- Kurs, workshops, seminar
- **FoU-prosjekt**

3. Utvikle felles språk

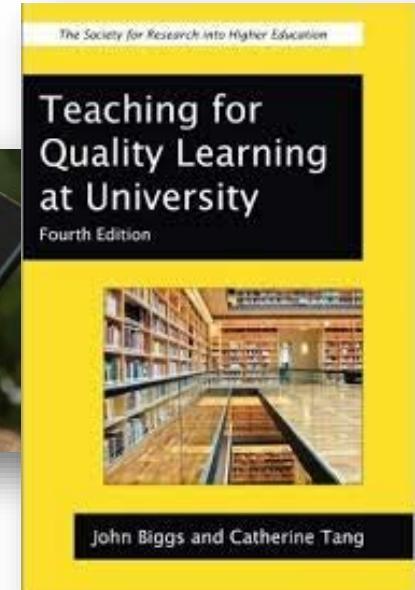
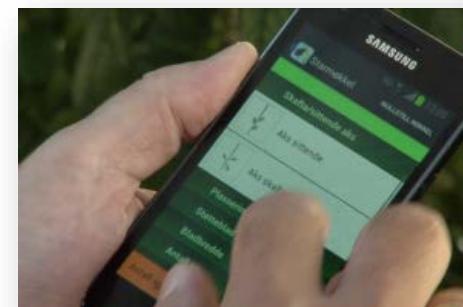
- Dokumentasjon
- Deling, spreiling

Content knowledge



Societal relevance

Practical skills



John Biggs and Catherine Tang

Ein kultur i det daglege





Lærarsamling



Korleis undervise for å skape læring?



– Problemet er ikkje å få til undervisning med høg hallelujafaktor, spørsmålet er kva studentane lærer.

VIGDIS VANDVIK



– Vi ønskjer å finne ut om praksis bør vere ein del av utdanninga i biologi, seier Torstein Nielsen Hole (t.v.) og Gaute Velle.



Læringslaben

Sentera for framifrå utdanning eksperimenterer med nye læringsmetodar. Studentane til Christian Jørgensen sovnar aldri i timen.

TEKST: JOHANNE LANDSVERK FOTO: PAUL SIGVE AMUNDSEN

Ein kultur for å analysere

Report on BIO201 Ecology 2016

Summary

This year we had a different assessment, but our outcomes were re

1. be able to obtain - numerical skills for BSc-students in biology
2. know how ecology can be used
3. use some statistical processes

Design, data, and statistics

- numerical skills for BSc-students in biology

Jenny, Jeppe, Vigdís & Sigrunn

UNIS 14.03.16



2nd Conference of the
Norwegian Ecological Society (NØF)

Ecological change, changing ecology

March 12 – 13th 2015, Bergen



an integrated learning activity in BIO's biology: current status and recommendat

ersen*, Oyvind Fiksen, Lawrence Kirkendall, Sig

Biology, University of Bergen, Norway

and Botanical Gardens, University of Bergen, Nor



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utdanning

bioCEED-seminar 26 Nov, 12-13



How Can the Scholarship of Teaching and Learning Improve my Teaching?

What kinds of new strategies, techniques, or other innovations can individual instructors implement into their teaching practice?

How can the effectiveness or impact of these changes can be measured and shared using approaches from SoTL?

Strategies to support each other in these efforts moving forward.

The seminar will be given by **Robert Gray Jr.**, Associate Professor of University Pedagogy in the Department of Education at the UiB.

Time and place:

26 Nov, 12:00-13:00, Biologen, Seminar room K1/2

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bioCEED-seminar 07 Sept



Active learning improves diversity in undergraduate science

v/ postdoc Cissy Ballen
University of Minnesota

Tid og sted:
07. September
Kl. 12:15-13:30
Seminarrom K3/4 Biologen

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Ein kultur for å utvikle

← → C ⓘ biostats.b.uib.no ⋮

bioST@TS When biology adds up, at last...

Home Tutorials Up in the R... videoST@TS bioST@TS in biology courses For teachers

Normalfordelingen

Skalldykkelse

Probability density

1.0 2.2

Poissonfordelingen

Antall egg

Probability density

0 2 4 6 8 10

Binomialfordelingen

Antall kyllinger

Sannsynlighet

0 1 2 3 4

Lær om gjennomsnitt, variabilitet og fordeling med våre videoer.

Se og lær...

Norgesuniversitet....html

Show all

02:01
15/12/2016

Ein kultur for deling





Oppsummering & strategisk sideblikk

- **Korleis bygge fellesskapet?**
 - Mål, møteplassar, språk..
 - Realistiske, men spennande prosjekt!
- **Kva er institusjonen si rolle?**
 - Inspirator, motivator, støttespelar, general(?)
 - ‘Sjå’ undervisingen, og undervisingskollegiet!
- **Korleis kan det bli litt meir SoTL i kvardagen?**
 - Tenne fyrtårn, flytte (grunn)fjell
 - Snakke saman! ...internt, eksternt, om stort og smått...



Hvem er “vi” i bioCEED?



Department of Biology



Department of
Arctic Biology



Higher education research group



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH





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utdanning

bioCEED
Centre of Excellence in Biology Education

LTH – Faculty of Engineering at LU

1. develop individual teachers' practice
2. develop teacher thinking
3. develop teacher motivation
4. develop (local) communities of practice
5. address local issues and problems
6. identify emergent change & spread best practice
7. develop learning environments
8. develop learning resources
9. develop students
10. develop quality assurance
11. undertake evaluation
12. develop leadership of teaching
13. identify and remove (infrastructure) obstacles
14. institutional strategy
15. influence the external environment

Very strong
Strong
Moderate
Weak



Vi har jo prøvd før: Fra planleggingsmøte i 2011...

