



01.10.2014

Centre Leader Report

Attention is drawn to the MatRIC Centre Calendar (included below) that provides an overview of the events and activities of the MatRIC team.

In this report four issues are considered, which we hope will stimulate discussion within the Management Board.

1. MatRIC Working Groups
2. UiA's profile within MatRIC, MatRIC's profile within UiA
3. MatRIC's activity within UiA
4. MatRIC's external activity and networking.

1. MatRIC Working Groups

The working groups are beginning to shape and several activities are at various stages of planning:

- Video WG: A workshop in Bergen on video tutorial production (23-24 October). Collaboration with UHR on developing video based resources. Invitation for student participation.
- Simulation WG: Developing contacts with others working in this area (NTNU, UiO, HiG). Developing a new platform so that the programming of simulations becomes accessible for students and teachers. A workshop planned for late spring 2015.
- Modelling WG: Collaboration with bioCEED and mathematicians at UiB to develop teaching resources. Discussions with biologist at UiS. A workshop planned for late spring 2015.
- Teacher Education WG: We are delighted to report that Claire V. Berg has volunteered to coordinate this group. Plans for collaboration with ProTed are being laid including a possible joint workshop early spring 2015. Several of the MatRIC research grants are within mathematics teacher education.

2. UiA's profile within MatRIC, MatRIC's profile within UiA

- In external presentations (see calendar for a list) it is made clear that MatRIC receives two thirds of its support from UiA and one third from NOKUT. Also we make clear that MatRIC is built upon a proposal that presented evidence of excellence in teaching and learning mathematics at UiA.
- MatRIC continues to develop the Centre's pages on uia.no. We are grateful to Vibeke Faye Wevle and colleagues for their support.
- We are working to establish a national and international network, and promote MatRIC as a national resource (Newsletter, Facebook, publicity). There is evidence that this is contributing to UiA's national profile, this can be found in the number of invitations to be represented or make presentations to national committees.
- The development of the matric.no web-site is an important part of the strategy, an important consideration in this is to ensure UiA is properly represented as the originator, owner and host of MatRIC.
- With the help of the UiA publicity team we are developing means of dissemination and presentation – Newsletter, leaflet/fliers, roll-ups, and business cards. The aim is to present MatRIC,



we are in an iterative process in presenting UiA properly in these products – we hope to be converging towards a satisfactory profile.

3. MatRIC's activity within UiA

- Events focused on developing activity within UiA: Seminar led by Per Kristian Rekdal on 16 June (attended by about 25 colleagues from both Kristiansand and Grimstad campuses). Presentation by Jo Røislien in Bluebox – aimed at students to present MatRIC (attended by about 150, students, colleagues, school pupils and general public). Centre visit to Loughborough (included 9 UiA participants and 6 others from NTNU, NMBU, HiB, Denmark & Israel – and 16 from the UK).
- Working Group coordinators are meeting regularly to discuss plans for internal (UiA) activity in addition to national workshops.
- We want to do more to stimulate interest in developing teaching at UiA and encourage a lively discussion about high quality teaching and learning. One approach being considered is to recruit student teams to produce short teaching episodes that may be included in a web-based resource. The main issue is how students will be motivated to do this and what support will be necessary.

4. MatRIC's external activity, networking and dissemination.

- We have made a lot of effort to develop a national network for MatRIC. Events have been announced on exiting e-mail lists that connect with mathematicians and mathematics teachers in higher education (e.g. alle@matematikknettverket.no; informat@matematikkforeningen.no) and all Universities and University colleges have been invited, and through encouraging people to sign up for the newsletter. The impact of these can be seen in the following:

As of 29 September:

87 subscribers to the MatRIC Newsletter, subscriptions show a steady increase

54 followers on Facebook (since this was established on 27 August)

30+ participants from 14 institutions attending the video workshop in Bergen

80+ participants signed up for the annual conference in Trondheim.

- We are actively engaged with two other centres of excellence in education – bioCEED at UiB, and ProTed at UiO/UiT.
- Colleagues from 17 institutions throughout Norway are engaged in MatRIC activities (UiS, UiO, UiT, UiB, NTNU, NMBU, UiN, HiOA, HiØ, HiB, HiNarvik, HiST, HiBV, HiGjøvik, HiMolde, NSMO).
- We have been pleased to be included in UHR discussions for creating a refresher resource in mathematics for first year bachelor students. The development of high quality resources in mathematics education is very close to MatRIC's goal. To be part of this development is likely to contribute to MatRIC's national position as a focal point for teaching and learning mathematics at higher education level. We want to make a significant contribution to this effort, and maybe provide the host for the web-based



- Dissemination:
MatRIC was featured in the NOKUT Annual Report (Årsrapport 2013¹, p.13). NOKUT will soon release a SFU (digital) magazine, which will feature several MatRIC activities.

A MatRIC Newsletter was released in July.

A full page in Grimstad Adressetidende was printed in connection with the Jo Røislien event.

MatRIC was present for one day in Arendalsuka, and one day in Grimstad during Forskningsdagene.

MatRIC can now be followed on Facebook and Twitter!

Present and on-going concerns

- Maintaining this level of activity within MatRIC is keeping us very busy and it is quite difficult to escape the busy-ness of organizing events and attending meetings in order to reflect seriously on how MatRIC is developing and laying down plans for future activity and continued development.
- We are concerned to develop the presence and profile of MatRIC within UiA ... how can we do this more effectively?
- We are concerned to promote UiA as MatRIC's home without discouraging engagement from other institutions. How do we achieve the right balance?
- We want to draw students to MatRIC activities, how can we motivate their engagement?

1



Calendar 2014

January	
9	SIWG Coordinators meeting - Grimstad
14	Oslo – NFR meeting to introduce new FINNUT programme
16	SIWG Grimstad coordinators
21	Trondheim – meetings at NSMO & NTNU
28	MatRIC presentations Kristiansand: Agder Conference – Grimstad: Statsministeren
31	Closing date for applications for Centre Administrator
February	
10	Gardermoen – NOKUT meeting for SFU leaders
13	SIWG Coordinators meeting - Grimstad
14	Yuriy Rogovchenko visits NMBU, Ås to meet with mathematicians and statisticians – and present MatRIC.
17	Bergen – meet with Aasmund Kvamme (study leader for mathematics in engineering programme) at Høgskolen I Bergen
19	Centre Management Board
March	
10	Presentation of MatRIC to Stortingets Kirke-utdanning og forsknings komiteen, Grimstad
11	International Advisory Board – 1 st meeting at Gardermoen
12	Launch conference
21	Umeå – explore links with mathematics centre (Johan Lithner) http://www.ufm.umu.se/english
25	Per Sigurd Hundeland presents MatRIC to nettverk for matematikk i lærerutdanning (a meeting with representatives from every teacher education programme in Norwegian universities and university colleges.



26	Centre Management Board
26	Presentation of MatRIC to MNT Forum
April	
1	MatRIC Project Manager (Line Malde) starts. MatRIC invites Grimstad colleagues to coffee to introduce MatRIC and Line Malde.
8	KD Seminar: Hvilket behov har vi for ingeniørfaglig kompetanse i Norge, nå og i fremtiden? LM represents MatRIC
30	Launch of BioCEED 10:00-14:15, i Bergen
May	
5-6	SG and LEM participated in the writing course with tutors from “forskning.no”
7	Meeting with the student representatives to discuss Students involvement in MatRIC and a MatRIC event in the early autumn.
14	NFmR – Det Nasjonale fakultetsmøte for realfag http://www.uhr.no/rad_og_utvalg/nasjonale_fakultetsmoter
15-16	Meeting in Bergen with bioCEED – goal: to establish a working group that will develop and implement resources that will support the mathematical education of bachelor level biology students. Yuriy Rogovchenko and Simon Goodchild.
19	Frode Rønning represented MatRIC at the Holmboe memorial prize in Oslo
19-21	MatRIC presentation in Department seminar
22-23	Meeting at Gjøvik - realfagsgruppen, PHH, MB og LM presented MatRIC.
27	MatRIC information meeting. Participants: colleagues at UiA
27	Morten Brekke met the economics department at UiA to discuss/present digital assessment.
28	Per Henrik Hogstad met with Said Hadjerrouit (prof. of Informatics Didactics) at UiA to discuss/present SimReal+ that will be used in “IKT i matematikkutdanning for lærere” in the autumn 2014
June	
3-6	NORMA14 Conference, Turku Finland – Workshop proposed by NTNU & MatRIC (accepted)



4	Morten Brekke and Line Eielsen Malde will met with Gyldendal publishers. UHR wants to make a digital course in mathematics for students to refresh high school curriculum. MatRIC is asked to take a leading role in this.
10	Simon Goodchild participated in the first meeting of “ekspertgruppe for realfag”, formed by the Ministry of Education and Research.
10-13	Morten Brekke participated at Eden annual conference and represents MatRIC. <i>E-learning at the workplace.</i>
16	Seminar Grimstad, Per Kristian Rekdal, HiM: <i>Enriching students’ mathematics learning through youtube and facebook.</i> Open seminar, special invitation to the institute of economics and the faculty of Engineering and Science at UiA (employees and master students).
17	Centre management Board 13.00-15.00
20	Claire and Simon participated in a working group at UHR with the theme «FoU-basert utdanning».
22-28	LM in Lesbos, presents MatRIC at faculty seminar.
23-25	SEFI (European Society for Engineering Education)-MWG (Mathematics Working Group) Seminar (Dublin) (SG attended) http://www.it-tallaght.ie/events/MWGSefi_17/index.html
Late June	Per Henrik Hogstad and Line Eielsen Malde will visit Sørlandet sykehus to make a film and interview about Ultrasound
August	
	Target to have SIWGs operational
13	Meeting with Op design and Rude about the webpage
14	MatRIC had a stand at «Arendalsuka» together with Vitensenteret
18	Jo Røislien – “Vi er alle matematikere” Grimstad Bluebox 19.00
20	Working Group Coordinators meeting. PHH, MB, YR, SG, og Line
28	MatRIC and bioCEED SFUs meeting to explore collaboration at UiB. Representing MatRIC: SG and YR, representing bioCEED Øyvind Fiksen, UiB mathematician Gunnar Fløystad.
September	



1	Meeting with ProTed – Line, Claire Hans Kristian and Simon
4	Working Group Coordinators meeting. PHH, MB, YR SG, Olov Viirman og Line
8	NOKUT breakfast meeting. Focus on quality in teaching.
8	Meeting with UHR. To make a national digital resource to tighten the gap between the mathematics level from VGS to University level
9	Meeting between PHH and Knut Mørken at UiO. Digital tools in teaching and learning, simulations.
9	MNT Study Administrators meeting at UiA/Grimstad, participants from around Norway. SG presented MatRIC.
11-12	Joint meeting MatRIC and Loughborough U. Mathematics Centre at Loughborough, (involved SIWGs) (15 MatRIC participants – representing UiA, NTNU, NMBU, HiB, and two international guests (Denmark and Israel) – 16 participants from the UK
15	Meeting with the teacher education at UiA. Claire Berg, Hans Kristian Nilsen, Elna Svege og Line E.M
16	Telephone meeting between PHH and Marius Thaule at NTNU about simulation
17	YR meets with Professor Peter Ruoff Ui Stavanger
20	Line & Sondre – Forskningsdagene in Grimstad – MatRIC ‘stand’
23	Meeting about the Web page with our developers
25	Simon Goodchild presents MatRIC in Alta, seminar.
26	Meeting Tone Malmsted ProTed og Line E.M. What can we learn from each other?
26	SG in the KD expert group for “Realfag”.
October	
2	Coordinators meeting.
2	Anne Berit Fuglestad represents MatRIC at the EVU conference at Hurtigruten.
9-10	SG in the KD expert group for “Realfag”.
23-24	MatRIC seminar – video teaching – in Bergen Main contributors: Steve Hoy and Gunnar Horn
November	



12	SG in the KD expert group for "Realfag".
27-28	MatRIC conference Trondheim (+ 2 nd meeting IAB) Keynote speaker: Tom Lindstrøm
December	
Spring 2014	Modeling workshop in Kristiansand