

## Centre Management Board

Meeting Time: Monday 8 June 2015:13.00-15.00  
Place: UiA, Gimlemoen, J 2001

### Minutes

- 11/15 Welcome, attending: MAN, SG, LEM, ABF, IE, HHG, ST, MN, FrodeR, IAH  
Apologies received from CVB, ES, MB, IJK and FrankR.
- 12/15 Agenda for meeting agreed.
- 13/15 Minutes from meeting held on 13.03.15 were accepted as an accurate record with the clarification (item 05/15 point 4) that it was the colleague who was invited to be research coordinator who declined the invitation. The minutes could be read as if someone else decided that MatRIC should not do this.
- 14/15 No new matters were raised that would not be covered during the Centre Leader Report.
- 15/15 Centre Leader's report (Attachment #1) received, includes calendar for 2015.

#### **SG went through what is not included in the report:**

##### **Report from the three events:**

Three events during two weeks. These have been planned by the coordinators. Many interesting speakers from Norway and abroad.

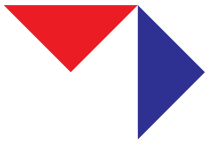
**Modelling event:** Different disciplines represented: mathematics, chemistry, physics and mathematics education. Different fields came together to learn and discuss. Talked *to* each other and not *with* each other. Establishing a proper two-way dialogue is something to work at.

Frode: Pointed to this "talked to and not with". The modelling event: Broad area – what do we mean by mathematical modelling? Many very different views on this. What is mathematical modelling? What other cultures/areas concerning is the target here? Ref. Mogens Niss who has done a great deal of work in the field and can help us to develop the dialogue.

SG: we try to insure that we are aware of and take into account the different views. We will continue the research with University of Bergen – the biologists and the mathematicians there are very positive.

**Vizualisation and simulation event:** Participants came from across Norway. Sondre: The event was very interesting, especially Knut Mørken's presentation. It is





Important for MatRIC and the simulation group to share and learn within the community. Different tools are being used – MatRIC’s key area of interest is how simulations and visualizations in general can facilitate the students’ understanding and learning of mathematics.

**Digital assessment event:** many different approaches and tools were presented. There were useful discussions. Next time we should focus on authoring questions. We note the existence of many different systems for computer aided assessment (CAA) and the unlikelihood of there being one accepted program for CAA used in Norway. The issue for MatRIC is not about supporting a particular CAA program, but rather the authoring of good questions within the system?

**Mathematics support Centre:**

ABF: visited four Irish centres (in Dublin) during two days. Impressive to see how they cooperate.

Svitlana Rogovchenko visited a workshop on mathematics support centres in Dublin.

MAN: suggested to contact Beate Andreassen about the opening weeks. Beate is in charge of the opening from UiA.

**Course for newly appointed math tutors:**

SG presented an outline of the programme with the “wish list” for speakers. Will soon send out the invitations.

**Research Grants:**

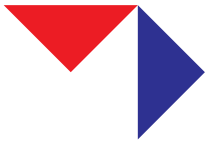
bioCEED – could come with a research proposal.

Line: web development – proceeding as planned.

INTPART programme: application submitted.

- 16/15 Report from the three Events in May and June was discussed in 15/15
- 17/15 Financial report  
Little to report except that we are using about 150 000 more than budgeted for the webpage. The reason for this is the development of the video portal we are making for the project we are doing on behalf of UHR. MatRIC wanted to make a video portal anyway and will now get this ready to August 15.
- 18/15 Reports from NTNU and NMBU
- 18/15 Frode  
Lots of things can be said. KTDiM is a large project with many things happening. Computer aided assessment – the part that causes the most headache. Surveys/Interviews – work hard to find ways of constructing the tasks so that it gives some opportunity for learning. Meeting with Maple producers – good dialogue – they





do listen to our needs and people at NTNU learn more how to make use of the system. Autumn: large restructuring of the lectures at NTNU. Changing the structure from the traditional form. 2+2 times lectures a week, 1500 students. Traditionally split in 6. Keeping 2\*2 on the schedule, but first session: use as few rooms as possible (lots of students), then split them into four. Survey lecture - points at the main topics for the week. Will be video recorded. Then two tasks that will be presented in CAA (Computer aided assessment). The task should be done before the next lecture so that the teacher can look at this before the lecture. Then dive into the theory. Then students are divided into 12 groups. Work on tasks. Work based on the students' response. Video material available. It is a large experiment.

Margrethe

Continue with the project.

Mathematicians and mathematics educators are working closer together.

August: Margrethe begins one year research leave. NMBU and people there are now very aware of MatRIC – so the words are getting out there.

## 19/15 Discussion points

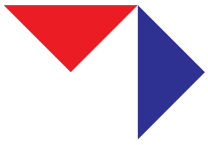
### 19/15 Discussion points

- Student involvement in developing interface for Simreal.
  - o MatRIC has been approached by two students offering to create an interface into which SimReal could be presented. MatRIC Leaders were uneasy about committing significant investment in the work of a very small number of students without being convinced of the value and use of the proposed product. A useful discussion was had that focused on user friendliness of the product, value in teaching and learning mathematics, dependency of any artifact on a small number of committed individuals and sustainability. Following the discussion it became known that the faculty had agreed to sponsor the two students in their enterprise.
- Events: Some concerns due to the costs and people not coming. How to solve this?
  - o Small fee, pay the hotel if you do not come...? Reflect a bit more before they do not show.
  - o Frode: Expensive. People sign up. We will fund up to 30 participants for example. The 30 first will get it for free... Easier to budget.
  - o Only one night accommodation, two days from work. Lunch to lunch. Spend the time efficiently. Continued discussion after dinner... 24 hours you can spend the time efficiently. Three days is probably too much.
  - o Can get more than 24 hours out of the Event. Have discussion groups. Informal ways of discussion.

## 20/15 Any other business

- Composition of the Management Board from January 2016. SG and LEM will come back to the board with a proposal.





**Next meeting:** One meeting in September? And then one 27.11.15 in Trondheim.

*N.B. The MatRIC annual conference will be held in Trondheim 25-27 November 2015. All members of the IAB have agreed to be present and contribute to the conference. As last year, we hope to have a combined Management Board/Advisory Board meeting immediately after the conference (27 November 2015, 13.30-15.30).*

*Initials:*

*MAN- Marit Aamodt Nielsen*

SG – Simon Goodchild

LEM – Line Eielsen Malde

ABF – Anne Berit Fuglestad

IE – Ingvald Erfjord

HHG – Harald Hoven Gautestad

ST – Sondre Tørdal

MN – Margrethe Naalsund

FrodeR – Frode Rønning

CVB – Claire Vaugelade Berg

ES – Elna Svege

MB – Morten Brekke

IJK – Inger Johanne Håland Knutson

FR – Frank Reichert

