

Publikasjoner og foredrag TBM-prosjektet ved UiA, 2007 - mai 2010

[] betyr at artikkelen eller kapitlet strengt tatt ikke er fra TBM, men er skrevet i prosjektperioden. Strek mellom referanser skiller mellom grupper som er publisert i forskjellige tidsintervall og sortert alfabetisk mellom to streker. Nyeste kommer først for hver forfatter

Artikler, i tidsskrifter m. review

Jaworski, B. & Fuglestad, A. B. (2010). Developing mathematics teaching through inquiry: A response to Skovsmose and Säljö. *NOMAD*, 15(1) 101-118

Fuglestad, A. B. (2009). ICT for Inquiry in Mathematics: A Developmental Research Approach. *Journal of Computers in Mathematics and Science Teaching*, 28, 191-202

Fuglestad, A. B. (2009). Inquiry approaches in mathematics – providing opportunities for different learners. In K.Linnamäki & L. Gustavsson (Eds.), *Different learner - different math? Proceedings of the 4th Nordic Research Conference on Special Needs Education* (pp. 193-209). Vasa: Åbo Akademi University.

Fuglestad, A. B. (2009). Utforskende matematikkundervisning - en lærers planlegging og refleksjoner. In B.Groven, T. M. Guldal, O. F. N. N. Lillemyr, & F. Rønning (Eds.), *FoU i praksis 2008 Rapport fra en konferanse om praksisrettet FOU i lærerutdanning* (pp. 69-80). Trondheim, Norway: Tapir akademisk forlag.

Grevholm, B. & Rønning, F. (2010). Nordic collaboration in mathematics education research – continued. *Nomad*, vol 15, nr 1, 101-106. (contains presentations of theses by Mary Billington and Per Sigurd Hundeland)

Fuglestad, A. B. (2007). Teaching and teachers' competence with ICT in mathematics in a community of inquiry. In J.-H.Woo, H.-C. Lew, P. Kyi-Sik, & S. Don-Yeop (Eds.), *Proceedings of the 31st Conference of the International Group for the Psychology of Mathematics Education* (pp. 2-249-2-258). Seoul: The Korea Society of Educational Studies in Mathematics.

Fuglestad, A. B., & Goodchild, S. (2008). Affordances of inquiry: the case of one teacher. In O.Figuera, J. L. Cortina, S. Alatorre, T. Rojano, & A. Sepúlveda (Eds.), *Proceedings of the joint meeting of PME 32 and PME-NA XXX* (pp. 3-49-3-56). Mexico: Cinvestav - UMSNH.

Goodchild, S. (2008). A quest for 'good' research. In B. Jaworski & T. Wood (Eds.) *International Handbook on Mathematics Teacher Education Vol. 4. The Mathematics Teacher Educator as a Developing Professional: Individuals, teams, communities and networks*. pp. 201-220. Rotterdam, Holland: Sense Publishers.

Grevholm, B. (2007). Why is mathematics teacher education problematic? In A. Andzans, D. Bonka, G. Lace, (Eds.), *VII International conference Teaching mathematics:*

Retrospective and perspectives. Proceedings, May 11-12, 2007, Riga, (pp. 79-88). Riga: Latvijas Universitate. (ISBN 9984-18-380-7)

Grevholm, B. (2008). Tertiary education – research and experience from teaching and learning mathematics. In P. Bourguignon (Ed.), *The future of mathematics education in Europe*. Lisboa: Fmee.

Bergsten, C. & Grevholm, B. (2008). Knowledgeable teacher educators and linking practices. In B. Jaworski, K. Krainer, & T. Wood (Eds.), *Handbook for research on mathematics teacher education*, (pp. 223-246). Rotterdam, The Netherlands: Sense Publishers.

Jaworski, B. (2008). Building and sustaining inquiry communities in mathematics teaching development. Teachers and didacticians in collaboration. In K. Krainer (Volume Ed.) & T. Wood (Series Ed.) *International handbook of mathematics teacher education: Vol. 3. Participants in Mathematics Teacher Education: Individuals, teams, communities and networks* (pp.309-330). Rotterdam, The Netherlands: Sense Publishers.

Jaworski, B. (2008). Development of the Mathematics Teacher Educator and its relation to teaching development. In B. Jaworski (Volume Ed.) & T. Wood (Series Ed.) *International handbook of mathematics teacher education: Vol. 4. The mathematics teacher educator as a developing professional* (pp.335-361). Rotterdam, The Netherlands: Sense Publishers.

Jaworski, B. (2008). Mathematics Teacher Educator learning and development: an introduction. In B. Jaworski & T. Wood (Eds.), *International handbook of mathematics teacher education: Vol. 4. The mathematics teacher educator as a developing professional* (pp.1-16). Rotterdam, The Netherlands: Sense Publishers.

Ruthven, K., & Goodchild, S. (2008). Linking researching with teaching: Towards synergy of scholarly and craft knowledge. In L. English (Ed.), *Handbook of International Research in Mathematics Education*. Second Edition. (pp. 561-588). Mahwah, NJ: Lawrence Erlbaum.

Publiserte artikler i andre vitenskapelige og faglige tidsskrifter

Fuglestad, A. B. (2010). Samarbeid for bedre læring i matematikk. *Bedre Skole*, 74-77.

Billington, M. G., Grevholm, B., Grostøl Hansen, E. M., & Skagestad, L., (2008). Lærere og forskere reflekterer sammen over elevers læring i matematikk. *Tangenten* (4), 19-24.

Utgitte bøker / artikler i bøker (lærebok, antologier og lignende)

Espeland, H., Goodchild, S., & Grevholm, B. (2009). Challenges faced by those working towards a co-learning agreement. In C. Winsløw (Ed.), *Nordic research in mathematics education: Proceedings from NORMA08 in Copenhagen April 21-April 25, 2008* (pp. 81-88). Rotterdam: Sense Publishers

Billington, M.(2008). An interview technique to explore the process of instrumental genesis In C. Winsløw (Ed.), *Nordic Research in Mathematics Education: proceedings from NORMA08 Copenhagen* (pp. 245-253). Sense

- Tesaker, E. M. (2008). *Minoritetsspråklige elever og matematikk, en komparativ studie av skriftlige tester på 9. Og 11. Trinn*. Unpublished Masteroppgave, Universitetet i Agder, Kristiansand.
- [Fuglestad, A. B., Healy, L., Kynigos, C., & Monaghan, J. (2010). Working with teachers: context and culture (ICMI study 17). In C.Hoyles & J.-B. Lagrange (Eds.), *Mathematics Education and Technology - Rethinking the Terrain* (pp. 293-310). New York: Springer.]
- [Fuglestad, A. B. (2009). Å være digital i matematikk. In H.Otnes (Ed.), *Å være digital i alle fag* (pp. 140-165). Oslo: Universitetsforlaget]
- [Fuglestad, A. B. (2009). Digital regning - muligheter og utfordringer. In J.Fauskanger & R. Mosvold (Eds.), *Å regne i alle fag* (pp. 116-129). Oslo: Universitetsforlaget.]
- Jørgensen, K. O. & Goodchild, S. (2009). Utvikling av unge elevers relasjonelle forståelse i matematikk. In J.Fauskanger & R. Mosvold (Eds.), *Å regne i alle fag* (pp. 100-115). Oslo: Universitetsforlaget.
- [Breiteig, T. & Grevholm, B. (2010). Longitudinal study as an instrument for development in mathematics teaching and mathematics education research. . In S. Goodchild & B. Sriraman et al. (Eds.), *The Sourcebook on Nordic Research in Mathematics Education* Charlotte: Information Age Publishing Inc. (in press) (contains evaluation and discussion of mathematical tasks used in TBM and research based work with student teachers which has been further developed in TBM)]
- Grevholm, B. (2009). Teaching better mathematics – a developmental research study. In M. Lepik (Ed.), *Teaching mathematics: Retrospective and perspectives. Proceedings of the 10th international Conference*, (pp. 169-176). Tallin University.
- Grevholm, B. (2009). Mathematics education research and research education in the Nordic countries. In M. Lepik (Ed.), *Teaching mathematics: Retrospective and perspectives. Proceedings of the 10th international Conference*, (pp. 19-37). Tallin University. (contains several examples of studies in TBM and about the work by the TBM-group)

Artikler, under trykking (akseptert) og i arbeid

- Berg, C. V. (in press). Designing and implementing mathematical tasks: The T-shirt task. In T. Rowland and E. Nardi (Eds.), *Research in Mathematics Education*.
- Berg, C. V. (submitted). Le projet TBM : un exemple de modalité de collaboration entre chercheurs et praticiens en Norvège. *Revue Recherches en Education*. Nantes, France.
- Berg, C. V. (submitted). Virksomhetsteori som teoretisk ramme for å studere samarbeid mellom forskere og lærere: overgang fra design til implementering av matematiske oppgaver i undervisning. *Norsk Pedagogisk Tidsskrift*.
- Berg, C. V. (in progress). Inquiring into one's own practice: the case of teachers from kindergarten. *JRME*
- Berg, C. V., Fuglestad, A. B., Goodchild, S. & Sriraman, B. (in progress). When the total is more than the sum of the parts (working title). To be submitted in *ESM*.
- Carlsen, M. (in progress). Orchestrating mathematical activities in the kindergarten: The role of inquiry. *NOMAD*

Carlsen, M. & Fuglestad, A. B. (in progress). Samarbeid med lærere i utviklingsforskning: Utvikling av læringsfellesskap i matematikk preget av inquiry. In *FoU i Praksis*.

Jaworski, B. (in preparation) Teaching Better Mathematics: What, how and why? In *FoU i praksis*

Carlsen, M., Erfjord, I., & Hundeland, P. S. (in press). Orchestration of mathematical activities in the kindergarten: The role of questions. (10 pages). Paper in proceedings of CERME 09, Conference of European Research in Mathematics Education 2009.

[Fuglestad, A. B. (2010, in press). Inquiry into mathematics teaching with ICT. In B.Sriraman, C. Bergsten, S. Goodchild, G. Palsdottir, B. Dahl, & L. Haapsalo (Eds.), *The First Sourcebook on Nordic Research in Mathematics Education* (pp. 91-108). Charlotte: Information Age Publishing Inc.]

Fuglestad, A. B. & Goodchild, S. (2010, in press). Mathematics learning and teaching development. In *Proceedings of the 34th Conference of the International Group for the Psychology of Mathematics Education* Belo Horizonte, Brazil: PME. (accepted)

Berg, C. (in press). Mathematics student teachers as participants in a research project: the emergence of critical thinking. *Proceedings of ICMI conference* (Rome 2008)

Goodchild, S. (in press): Classroom research: Impact and long term effect *versus* justice, liberation and empowerment? In L. Häggblom, & L. Burman (Eds.), *Proceedings of the (2006) Conference of the Association of Finnish Science and Mathematics Education Researchers*.

Goodchild, S., & Grevholm, B. (in press). An exploratory study of mathematics test results: what is the gender effect? *International Journal of Science and Mathematics Education*.

Jaworski, B., Goodchild, S., Eriksen, S., & Daland, E. (in press). Inquiry, Mediation and Development: Use of tasks in developing mathematics learning and teaching. In O. Zaslavsky, & P. Sullivan (Eds.). *Constructing knowledge for teaching secondary mathematics: Tasks to enhance prospective and practicing teacher learning*. Norwell, MA: Springer. (data from KUL)

Berg, C. (in preparation). A contextualized approach to proof and proving in mathematics education: focus on a community of inquiry. To be submitted to ICMI study 19, Proof and proving in mathematics education, May 10 - 15, 2009

Berg, C. (in preparation). Building a community of inquiry between teachers and didactician: The emergence of different layers of inquiry. To be submitted in NOMAD

Carlsen, M., Erfjord, I., & Hundeland, P. S. (in process). Orchestration of mathematical activities in the kindergarten: The role of questions. (10 pages). Paper proposal for CERME 09, Conference of European Research in Mathematics Education 2009.

Jaworski, B. (2009, forthcoming) DEVELOPING MATHEMATICS TEACHING THROUGH COLLABORATIVE INQUIRY in Black, L., Mendick, H. and Solomon, Y. (eds) *Mathematical Relationships in Education: Identities and Participation*. New York: Routledge.

Foredrag på konferanser og formidling på faglige møter

Publiserte foredrag fra internasjonale møter/konferanser

- Berg, C. V. (2010). The T-shirt task: Using a mathematical task as a means to get insights into the nature of the collaboration between in-service teachers and researchers. In Joubert, M. (Ed.) *Proceedings of the British Society for Research into Learning Mathematics* 29(3) November 2009.
- Erfjord, I., Carlsen, M. og Hundeland, P. S. (2009). A kindergarten teacher's intentions when orchestrating a measuring session in kindergarten. In *Published paper presentations at the 5th Conference for the Nordic Reserach Network on Special Needs Education in Mathematics (NORSMA) in Reykjavik*, 14th -16th October 2009. Reykjavik: Univercity of Iceland (available on web: http://stofnanir.hi.is/norsma/parallel_sessions).
- Fuglestad, A. B. & Goodchild, S. (2010). Mathematics learning and teaching development. In *Proceedings of the 34th Conference of the International Group for the Psychology of Mathematics Education* Belo Horizonte, Brazil: PME. (accepted)
- Grevholm, B. (2010). Matematikdidaktisk forskning i Norden. I *Dokumentation från matematikbiennalen i Stockholm*, 28-29 januari 2010. Stockholm: Stockholms
- Fuglestad, AB; Goodchild, S; Berg, C; og Hundeland, P S (2009): Om LBM-prosjektet med smakebiter fra prosjektet og hvordan vi jobber. Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Fuglestad, Anne Berit & Goodchild, Simon (2009): Forskning og utvikling for bedre matematikkundervisning. Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Billington, Mary (2009) Digitalt verktøy i matematikk – Gøy, men lite gunstig? Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Espeland, Hildegunn (2009) Er ikke alle regnestykker likninger? Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Berg Claire V. (2009) Overgang fra verksted til skolen. Hvordan implementerer lærere oppgaver introdusert i prosjektet? Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Carlsen Martin (2009): Inquiry-sykelen i barnehagen: Voksen-barn interaksjon ved hjelp av inquiry som tilnærming til eventyr. Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Jaworski, Barbara (2009) Becoming inquirers in learning and teaching mathematics. Foredrag på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
- Kjellingland, Elin; Norland Sissel, Møretrø, Klungland, Liv Torhild, g Kvamsdal, Kari, Hallandvik, Mari Anne, Golshani, Mazyar og Grødum, Renate: Inquiry i barne-hagen. Foredrag/verksted på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009

Steinsland Inger B.; Jørgensen, Kai Otto; Gabrielsen, Jens; Dyrstad Elin; Oftebro, Sten Rune A; og Sødal Gro; Åmlid, Ranveig og Blakseth Sigrunn Mjøs: Åh, nå skjønner jeg! Inquiry i barneskolen. Foredrag/verksted på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009

Skagestad, Lena; Hansen, Eva Mette G., Larsen, Trond, Hæstad Leif; Dean Evert; og Torkildsen, Gjermund (2009) Kommunikasjon og inquiry. Foredrag/verksted på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009
Aanensen, Stein; Arntsen, Frode; Ådnegård, Britt; Andersen, Wenche; Heier, Eivind; Rustan, Jenny Lise; Mjåland, Kjell; og Damsgaard, Kjetil (2009) Inquiry i matematikk-undervisningen på videregående skole: Bruk av det digitale læremidlet Geogebra. Foredrag/verksted på konferansen Lær bedre matematikk. Universitetet i Agder, 23-24 september 2009

Fuglestad, A B (2008) ICT for Inquiry in mathematics - a developmental research approach. Paper presented 4th European Workshop on Mathematical and Scientific e- Contents, Trondheim, September (Abstract is printed in book of abstracts. PPU serien NTNU NO. 32. Sept. 2008)

Fuglestad, AB; (2009). Spørrende, utforskende, undrende matematikkundervisning i læringsfellesskap. Foredrag på konferansen Matematikk i barnehage og skule, . Ålesund 5.- 6. mai 2009. Arrangert av Regional PP-teneste for Nordre Sunnmøre (RPPT)

Fuglestad, A. B. & Goodchild, S. (2009). Inquiry in the Development of Mathematics Teaching. Paper presented to the AERA Annual Meeting, San Diego CA in the symposium on Developing practice through critical inquiry in mathematics learning and teaching.

Fuglestad, A. B. & Goodchild, S. (2009). I thought it was a proof. Short Oral presentation. Abstract in Proceedings of PME 33, Tessaloniki, Greece

Fuglestad, A. B. (2009). Developing inquiry approaches to tasks and teaching in mathematics. *Abstract in C. Winsløw (Ed.), Nordic research in Mathematics Education. Proceedings from NORMA 08 Copenhagen April 21- 29, 2008* (pp. 89). Rotterdam / Taipei: Sense Publishers.

Billington, M. (2008). "Thales did not have DGS" Paper presented 4th European Workshop on Mathematical and Scientific e- Contents, Trondheim, September (Note: Abstract is printed in book of abstracts. PPU serien NTNU NO. 32. Sept. 2008)

Billington, M. (2009). Establishing didactical praxeologies: Teachers using digital tools in upper secondary mathematics classrooms Paper presented at the CERME 6

Espeland, H., Goodchild, S., & Grevholm, B. (2008). Challenges faced by those working towards a co-learning agreement, Paper presented at the NORMA08 Copenhagen

- Billington, M. (2008). An Interview Technique to Explore the Process of Instrumental Genesis, Paper presented at the NORMA08 Copenhagen
- Billington, M. (2008). "Thales did not have DGS" Presented 4th European Workshop on Mathematical and Scientific e- Contents, Trondheim, September Abstract is printed in book of abstracts. PPU serien NTNU NO. 32. Sept. 2008. (paper in preparation)
- Berg, Claire & Carlsen, Martin (2008): Invited lecture at Loughborough University, 03.04.08. Participants: Members of TBM Consortium and employees at Loughborough University. Duration: 1 hour. Title: *How can our students and pupils be supported to develop an inquiry attitude and approach in their learning and work on mathematics?*
- Carlsen, Martin (2008). Invitert foredrag på personalseminar i Kvisla barnehage 08.05.08. Sammen med Per Sigurd Hundeland. Varighet: 2 timer. Tittel: *Kvisla barnehage, Matematikk i barnehagen: Tallbegrepet.*
- Carlsen, Martin (2008) Invitert foredrag på fagdag for øvingslærere i Aust-Agder tilknyttet førskolelærerstudiet ved Dømmesmoen i Grimstad 26.05.08. Varighet: 2,5 timer. Tittel: *Matematikk i barnehagen – hva og hvordan.*
- Carlsen, Martin (2008) Invitert foredrag 10.09.08. Sammen med Anne Berit Fuglestad. Deltakere: PPT-ansatte fra Haram kommune. Varighet: 2 timer. Tittel: *TBM i barnehagen.*
- Erfjord, I.(2008). Forskning i matematikkdiraktikk innenfor utviklingsprosjekt. Presentasjon på seminar for morgendagens utdanningsforskere, Kunnskapsdepartementet 20. mai.
- Fuglestad, A. B. (2008). Inquiry approaches in mathematics – providing opportunities for different learners. Presentation at 4th Nordic conference on Special Needs Education in Mathematics (presented November 2007, paper submitted for proceedings).
- Fuglestad, A. B. (2008). Developing inquiry approaches to tasks and teaching in mathematics. Short presentation at Norma08, Copenhagen, April 2008.
- Fuglestad, A. B. Developing mathematics teaching and teachers' competence in Inquiry Communities Poster presentation, ICME-11 Subgroup xx Monterrey, Mexico
- Fuglestad, A. B. (2008) Bedre matematikkundervisning? FoU i samarbeid med skoler og barnehager. Tanker om å utvikle bedre matematikkompetanse. Foredrag i møte med ordførere og skoleledere I Agder, skoledugnad 18.01.2008
- Fuglestad, A. B. (2008) Bedre matematikkundervisning? Utviklingsforskning i samarbeid med skoler og barnehager. 12. mars Møte i Forum for lærerutdanning.
- Fuglestad, A. B. (2008) Informasjon om TBM prosjektet i møte med PP tjeneste fra Haram, 10. september.
- Jaworski, Barbara (2008) *Developing mathematics teaching through research in practice: A community of inquiry model.* ICMI-11 Monterrey, Mexico, Invited regular lecture,
- Jaworski, Barbara (2008) *Mathematics Teacher Education in a Global Context* Invited lead lecture to TSG at ICME 11– Monterrey, Mexico on Inservice education and professional lives of mathematics teachers (check)
- Jaworski, Barbara (2008)) *Inquiry in Activity in Developmental Research* Seminar at Kings College, University of London: April 2008

Jaworski, Barbara (2008) *Mathematics Teaching Development through research in practice*
Seminar at University of Athens, Athens, June 2008

Jaworski, Barbara (2007) *Mathematics Teaching Development through research in practice*.
Keynote presentation at the MSOR/CETL conference, Birmingham, 2007
(Mathematics, Statistics and Operational Research/Centre for Excellence in Teaching
and Learning) Also, published in the proceedings from this conference – need to find
reference.

Annen formidling (aviser, magasiner, radio, TV og lignende)

Artikkel i TEFT: Øystese, K. Å. & Janse, A. R. (2008). Hva blir 15? *TEFT Forskningsmagasin
for Universitetet i Agder, 1*, 30-33.

Web-presentasjon av prosjektene i konsortiet: <http://prosjekt.uia.no/tbm/>

Samarbeidsprosjekt i Vest Agder, LBM <http://lbm.vaf.no/forside.aspx?m=17>

Program for konferanse, Lær bedre matematikk ved UiA, 23 - 24 september 2009.
<http://www.uia.no/no/portaler/aktuelt/konferanser/lbm>

Omtale under aktuelt på UiA's websider:

http://www.uia.no/no/portaler/om_universitetet/teknologi_og_realfag/konferanse_om_matematikklaering