

Bjerknes Times

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Bjerknes Centre for Climate Research

Allégaten 55, 5007 Bergen

DIRECTOR'S NOTE

What's cooking?

NOBEL HONOUR

Just when I thought the demand for presentations and dissemination of the IPCC report was slowly diminishing, the Nobel Peace Prize was awarded to the IPCC and Al Gore. Thus the last week has seen a frenzy of nice congratulations and even higher interest in dissemination of the science. In my opinion, there is a real peace perspective in the work of the IPCC. By reducing the amplitude of climate change as well as producing adaptation measures that reduce vulnerabilities, dangers of destabilisation and conflict may be reduced. The importance of a scientific process in delivering this message has had profound influence, and the award of the Nobel Prize puts an additional pressure on the political process of finding a post-Kyoto regime that is stronger and more effective.

In my opinion Al Gore has been instrumental in setting the agenda and has been a major force behind the revival of the challenges from climate change that we have seen on the global arena over the past couple of years. I therefore see good reasons for a shared prize between the IPCC and Gore.

This is the first Nobel Prize given to a scientific organisation and I believe the IPCC process is unique in the way it has been able to communicate complex science to the policymakers and the public in a consensus process that gives a clear message. It is a means that should be tested out in other complex questions when an international assessment of science would help develop policies.

It is of course an honour for the BCCR to have been such an active part of the IPCC and thus to have a share in the prize. We have had one co-ordinating lead author, one lead author and six contributing authors to the IPCC WG1 report, as well as being one of four European centres providing model simulations for the IPCC projections of future climates. This is an important achievement. We also hosted the last lead Author meeting of WG1 and provided a very good ambience for the final discussions of the report. All in all the BCCR participation in WG1 is larger than the sum of the other Nordic countries outside of Norway.

The recent claims that a consensus process may underestimate the dangers and scale of the changes is important, but not completely on target. I think this partly stems from a misunderstanding of the IPCC process, which is by its mandate required to only assess published work and deals with those aspects which can be quantified. Thus often missed in debates are the uncertainties on the IPCC assessments and not least the fact that the upper limit of many projections are as likely as the mean value. One often tends to only look at the mean value of projections and therefore miss the point that the mid-point is not statistically more robust than an upper value.

While we are preparing our model system for the requirements of the next IPCC report, it is important that we

continue to use and analyse the results that went into the AR4-report. There is an untapped source of data that should stimulate research for a long period of time, and good ideas are most welcome.

Eystein

PRIZE TO JOHN INGE SVENDSEN

Professor John Inge Svendsen is awarded the Fram-committees Nansen-award. He received the prize for his effort in Norwegian polar research. Bjerknes Centre congratulates!

http://nyheter.uib.no/?modus=vis_navn&id=37963.

NEW EC-FUNDED "CARBOSCHOOLS" PROJECT



The FP7 "European network of regional projects for school partnerships on climate change research" project (acronym "CarboSchools+") was recently approved by the European Commission and grant agreement is currently under negotiation with a maximal budget just below 1 million€. CarboSchools+ links carbon science laboratories with secondary schools to develop partnerships where young Europeans learn and conduct experiments about climate research and reduction of greenhouse gas emissions. In partnership projects, scientists and teachers co-operate to give young people a practical experience of research through real-time experiments, site visits, debates etc. Nine research institutes in 6 countries will explore over the next three years how they can best motivate and support such partnerships at the regional level. The project will be coordinated at the Max-Planck-Institute for biogeochemistry in Germany with UiB (GFI/BCCR) participating as partner 6 with a budget of 80.000€ and work package 6 "networking and dissemination" coordination. The other participating organisations are Rijksuniversiteit Groningen (Netherlands), Leibniz-Institut für Meereswissenschaften an der Universität Kiel (Germany), Commissariat à l'Energie Atomique (France), Institut National de la Recherche Agronomique (France), Consiglio Nazionale delle Ricerche - Istituto di Biometeorologia (Italy), Fundació Parc Científic de Barcelona (Spain). European cooperation will allow a comparison of results and develop replicable good practices.

CarboSchools+ is the successor of the "CarboSchools" education project that started in 2005 as a joint initiative of CARBOOCEAN and CarboEurope-IP. Up to now, most CarboSchools projects in the European member states were basically driven by very engaged and enthusiastic researchers working overtime and partly without any funding. With respect to UiB the new CarboSchools+ project supplies the missing funds to develop a lap demonstration system for illustration of CO₂ transport between atmosphere and ocean and makes it possible to employ a dedicated scientific CarboSchools coordinator from 2008 onwards.

One of the first local CarboSchools projects was successfully carried out in summer 2006 with pupils from Bergen Katedralskole and Ingunn Skjelvan, Eva Falck, and Solveig Kringstad onboard of the R/V Hans Brattstrøm (see movie at <http://www.carboocean.org> -> products -> multimedia and BT newspaper article: <http://www.carboocean.org> -> press -> 05.09.2006). The booklet "what we know, what we do not know and how we try to better understand global change - introduction to research questions, challenges and methods for CarboSchools projects" is now also available in Norwegian thanks to the KJOS-group that kindly translated the English original. Another booklet is currently in preparation and it will not only relate to the latest CarboEurope and CARBOOCEAN findings to the climate debate, but also give a synthesis of the actions that can be taken by research institutes and individuals in their daily life and work to reduce CO₂ emissions.

Currently, CarboSchools and CARBOOCEAN are involved in the planning and organisation of next years GIFT workshop for teachers at the EGU General Assembly in Vienna, 14-16 April 2008, since the general theme for this workshop is "The Carbon Cycle" (GIFT = Geosciences Information for Teachers). About 70-75 teachers from all over Europe, and also the USA and China will participate together with up to 5 interested teachers from Norway.

Andrea Volbers

THE THIRD ANNUAL BLUE CUL-TOUR

Friday 12 October 2007 will be one of those days to remember when the history of BCCR will be written. And even though the morning-news may be what will shine most brightly in the future the BCT-committee feels honoured to be a small part of this special day.

Meeting up outside Allegaten 55 at 15:42 allowed for a sparkling taste, widely covered in the media, before the 35 participants impressively solved the annual rebus and we all found our way to Kalfaret Brygghus. The weather, perhaps in celebration of BCCR, also contributed by providing us with a clear beautiful autumn-sky.

There we were welcomed by a taste of Waldermars wheat-beer before we were taken on a tour around the micro-brewery and museum-part of the premises. We were also granted a taste of the stout and ale to have the flavour of the different beers that Kalfaret Brygghus produces. Indeed, this was a full historical and cultural experience, for example allowing us to see with our own eyes the first sponsor-contract between Hansa and Brann from 1923, only to mention one small highlight. Although some of the participants were occupied with the media during this afternoon session, the staff was accommodative and thus allowed the latecomers a taste of the sausage-menu they had put together for us.

After the meal, a new puzzle was introduced to the happy lot. Although it seemed easy at first – arrangement of 8 letters into one word turned out to be difficult. However, everyone managed to find their way to USF-Verftet.

This led to the middle session of the evening where a more participative cultural experience took place in the form of a one hour Cuban Salsa Suelta-class. Loosening up hips and other joints, often with distinct individual artistic expressions caused the heat to rise. We are deeply impressed with the fullness with which everyone immersed themselves into the Latin American cultural experience of the evening and we are

grateful to Knut Egil Pettersen who shared his expertise with us.

After having been physically active and creating individual art on the dance-floor, the BCT ventured into Sardinia where we allowed ourselves to be more passive receivers of culture in the form of jazz. More specifically we were given a musical journey into the world of Kurt Weil by the group "Music for a While". They took us from Berlin in the 1920's, to Paris in the mid 1930's and even made us travel to New York with them, through songs like "Mack the knife" from the "Three-Penny Opera" and "Alabama Song" from "Rise and Fall of the City of Mahogany".

In conclusion – the aim was to have a carbon-neutral expedition into culture. Journeying through Northern European and local brewery-art, Latin American music and dance and back again to German, French and American cabaret-scenes interpreted by a Norwegian band playing jazz with African roots make us tentatively suggest that we succeeded in the aim. The secondary aim – of sharing an enjoyable evening we also hope was shared by everyone attending.

The organising committee of the BCT is already looking forward to next year's Blue cul-tour and we wish to thank the support and wonderful involvement from all attendees as well as support from the BCCR CoE-grant and the Nobel committee's decision that a priori guaranteed a joyful and happy state-of-mind throughout the evening.

Emil Jeansson, Lill Tåve Jørgensen and Øyvind Lie

UPCOMING EVENTS

UNIFOB party, Tuesday 13 November 2007, 18:00, Grieghallen. More information at:

<http://www.unifob.uib.no/>.

Bjerknes Days 2007, 27-28 November 2007 at Vilvite and NERSC.

Bjerknes Getaway, 28-30 January 2008 at Vestlia Resort, Geilo. Invitation and information will be provided later.

VISITING FELLOW PROGRAMME AT BJERKNES CENTRE

The Visiting Fellow Programme sponsored by the Bjerknes Centre aims at fostering research collaboration in climate change. The programme supports short visits to Bergen and the funds are used for the partial or full coverage of travel and accommodation expenses of the guest.

Application deadline: 1 November 2007. **Contact:** Connie E. Engstad (connie.engstad@bjerknes.uib.no).

More information at the Bjerknes intranet pages.

SUMMER SCHOOL

7th International NCCR Climate Summer School, "Key challenges in climate variability and change", 31 August – 5 September 2008, Centro Stefano Franscini, Monte Verità, Ticino, Switzerland.

The NCCR Climate, Switzerland's Centre of Excellence in Climate and Climate Impact Research, invites young scientists to join leading climate researchers in a scenic southern Swiss Alpine setting for keynote lectures, workshops and poster sessions on the occasion of the seventh NCCR Climate Summer School 2008. Deadline for

application: 20 December 2007. More information at: http://www.nccr-climate.unibe.ch/summer_school/2008/index_en.html.

CALL FOR PROPOSALS

ESF Research Networking Programme

The European Science Foundation announces a Call for Proposals for its Research Networking Programme (all disciplines). This is a networking activity (research is not funded) bringing together existing nationally funded research activities over four to five years, thereby addressing a major scientific issue or a science-driven topic of research infrastructure at the European level. Deadline for submission: 30 October 2007. More information at: <http://www.esf.org/activities/research-networking-programmes/2007-call-for-proposals.html>.

FP7-Capacity Programme: Infrastructures Environment (including Climate Change)

- INFRA-2008-1.1.2.21: Establishing a European e-Infrastructure for earth systems understanding and modelling.
- INFRA-2008-1.1.2.24: Integrating, for efficient polar research, existing observation and monitoring stations in both Arctic and Antarctic regions.

Call is expected to be published by 15 November 2007 with deadline on 15 February 2008.

The call will be published at:

http://cordis.europa.eu/fp7/capacities/research-infrastructures_en.html.

FP7 calls on Cordis

<http://cordis.europa.eu/fp7/dc/index.cfm>. You can also find information at the Department of Research Management website: <http://www.uib.no/fa/>.

Positioning funding from the Research Council of Norway (NFR) – preparations for 7th Framework Programme.

More information at:

http://www.uib.no/fa/content/Funding/important_calls.htm.

LECTURES

Thursday 25 October 2007, 17:00, Auditorium 5, Realfagsbygget.

John Inge Svendsen, “Geologi og istidsmennesker i Russisk Arktis”.

Monday 29 October 2007, 11:15-12:00, Auditorium Eastwing, Geophysical institute.

Tarjei Breiteig, “ENSO and NAO response to a weakening overturning circulation”.

Friday 2 November 2007, 12:15, Foredragssalen, Geophysical Institute.

Alastair D. Jenkins, “Incorporation of the effects of surface waves into the turbulence closure model GOTM”.

Monday 5 November 2007, 11:15-12:00, Auditorium Eastwing, Geophysical institute.

Anne D. Sandvik, “Clouds, Radiation and the Arctic Climate”.

Thursday 8 November 2007, 10:15, Foredragssalen, Geophysical Institute.

Jerry Tjiputra, “Analysis of marine ecosystem dynamics using an adjoint three-dimensional ocean carbon cycle model”.

SEMINARS

WUN Videoseminars - Horizons in the Earth Systems. 2007/08 Theme - Global cycles in the Earth System.

Wednesday 7 November at 18:00, Fjellhallen room 2113, Department of Earth Science, Realfagsbygget.

Prof. Richard Pellier, U. Toronto. “Snowball Earth Prevention by DOC Re-mineralization”.

More information at:

<http://www.wun.ac.uk/horizons/earthsystems/>.

BJERKNES IN THE NEWS

Stigningen i havnivået. forskning.no 24.10.07. Chronicle written by Sigbjørn Grønås and Ina T. Kindem. <http://www.forskning.no/Artikler/2007/oktober/1192440228.64>.

Dramatisk endring i havets CO2-opptak. Adresseavisen 22.10.07. Truls Johannessen.

<http://www.adressa.no/vaeret/klimate/article964218.ece>.

Saknar morgonlyset. BT Magasinet 20.10.07. Helge Drange.

<http://www.bjerknes.uib.no/admin/mediefiler/54.pdf>.

Klima og maritim politikk i fokus. Kyst.no 19.10.07. http://www.kyst.no/index.php?page_id=59&article_id=79162.

TV-dokumentar om Nobelpris-vinneren. Trønder-Avisa 17.10.07. <http://www.ta.no/apps/pbcs.dll/article?AID=/20071017/NYHETER/710170017>.

Se, Nordpolen fryser jo ikke. VG 17.10.07. Tore Furevik. <http://www.bjerknes.uib.no/admin/mediefiler/53.pdf>.

Bystyret hedret fredsprisvinner. Bergens Tidende 15.10.07. Eystein Jansen. <http://www.bt.no/klimate/article425320.ece>.

Ble hyllet for Nobelpris. Bergensavisen 15.10.07. Eystein Jansen. <http://www.ba.no/nyheter/article3059878.ece>.

Fredspris på villspor. Bergensavisen 13.10.07. <http://www.ba.no/meninger/leder/article3055946.ece>.

Du kan ikke skyldte på vulkanene. VG Helg 13.10.07. Helge Drange.

<http://www.bjerknes.uib.no/admin/mediefiler/51.pdf>.

Gratulerer med Nobelprisen. Kyst.no 13.10.07. Eystein Jansen.

http://www.kyst.no/index.php?page_id=59&article_id=79109.

Et viktig fredsbudskap. Bergensavisen 13.10.07. Eystein Jansen. <http://www.ba.no/nyheter/article3056327.ece>.

Klimapanelet har fått nytt mandat. Aftenposten 12.10.07. Eystein Jansen and Helge Drange.

<http://www.aftenposten.no/nyheter/iriks/article2045070.ece>.

Bergenser fikk fredspris. NRK.no 12.10.07. Eystein Jansen. <http://www.nrk.no/nyheter/distrikt/hordaland/1.3734691>.

Feiret med sjampis og salsa. Bergens Tidende 12.10.07. Eystein Jansen, Helge Drange and Lill Tåve Jørgensen.

<http://www.bt.no/lokalt/bergen/article424225.ece>.

Riktig tidspunkt. DN.no 12.10.07. Eystein Jansen. http://www.dn.no/forsiden/article1201254.ece?jgo=c1_re&WT.svl=article_readmore.

Nobels fredspris til IPCC og Al Gore. TV2 Alltid nyheter 12.10.07. Helge Drange.

Kan bli økt rasfare på Vestlandet. Fri Flyt 12.10.07. <http://www.friflyt.no/index.php?pagenr=12&artidnr=54082>.

På vinnerlaget. Bergens Tidende 12.10.07. Eystein Jansen and Jill Johannessen.

<http://www.bt.no/klimate/article423901.ece>.

Bergenske forskere jubler. Bergensavisen 12.10.07. Eystein Jansen. <http://www.ba.no/nyheter/irix/article3054792.ece>.

Politikere og miljøbevegelsen jubler, men... NRK Dagsnytt 18 debate 12.10.07. Eystein Jansen.
http://www.nrk.no/programmer/sider/dagsnytt_atten/.
Fredsprisen til Gore og miljø. Dagens Næringsliv 12.10.07. Eystein Jansen.
http://www.dn.no/forsiden/politikkSamfunn/article1201074.ece?jgo=c1_re&WT.svl=article_readmore.

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PUBLICATIONS

Henriette Linge, Stein-Erik Lauritzen, Jan Mangerud, Nicholas A. Kamenos and **Jeanne-Marie Gherardi** (2007), Assessing the use of U-Th methods to determine the age of cold-water calcareous algae. *Quaternary Geochronology*, doi:10.1016/j.quageo.2007.09.003. <http://dx.doi.org/10.1016/j.quageo.2007.09.003>.

Steinar Orre, Yongqi Gao, Helge Drange, J. Even Ø. Nilsen (2007). A reassessment of the dispersion properties of ⁹⁹Tc in the North Sea and the Norwegian Sea. *Journal of Marine Systems* 68 (2007) 24–38. doi:10.1016/j.jmarsys.2006.10.009. http://www.nersc.no/~steinaro/Orre_JMS.pdf.

PRESENTATIONS

Ina Kindem. Hva skjer med klimaet?, Stord Videregående skole, Stord 22.10.2007.

Atle Nesje. Vedkjem dette oss? - Klimautfordringar for Sogn og Fjordane, Sogn og Fjordane Journalistlag i Florø, 20.10.2007.

Tore Furevik. Klimautfordringane: behov for eit nasjonalt senter for klimaanalyse og klimavarsling. Foredrag for programkomiteen i arbeiderpartiet, Bergen, 18.10.2007.

Tore Furevik. Korleis forstå og varsle klimaendringer? Foredrag, Infouken, Universitetet i Bergen, Bergen, 16.10.2007

Eystein Jansen. Main findings from IPCC AR4 Working Group 1, 4th Carbon capture and Storage Conference, Trondheim, 16.10.2007.

Richard Bellerby. Progress in understanding ocean atmosphere feedbacks from changing ocean chemistry, "COST Tools for assessing global air-sea fluxes of climate and air pollution relevant gases", Brussels, 16.10.2007.

Atle Nesje. Kva skjer med været? - Klimautfordringar for Sogn og Fjordane, Sunnfjord Hotell i Førde. Arrangør Sparebanken Sogn og Fjordane, 15.10.2007.

Helge Drange. Globale og lokale klimaendringer, Nordnes pensjonistgruppe, Bergen, 11.10.2007.

Eystein Jansen. Klimautfordringene, NITOs næringslivsdag Bergen, 11.10.2007.

Jan Mangerud. Panel "Hva styrer klimaet?", Norsk geologisk forening og Oslo geofysikerens forening sitt fellesmøte i Oslo, 11.10.2007.

Atle Nesje. Ekstremværet - Vil Bergen og Bryggen tåle det?, Forum for Unge Teknokrater, NITO Hordaland, 11.10.2007.

Richard Bellerby. Influence of increasing CO₂ on stoichiometry, EUR-OCEANS Redfield workshop, Heraklion, Greece, 03.10.2007.

Eystein Jansen. Klimaforum Bergen - åpningstale, 21.09.2007.

Richard Bellerby. Marine Ecosystem Response to increased CO₂ levels, Subsea storage of CO₂; The marine component meeting, Bergen, 10.09.2007.

Eystein Jansen. Klimautfordringene, Nordområdene og behovet for klimatilpasning. Foredrag for utenriksministeren og lokale politikere, Bergen, 04.09.2007.