

Tid och Plats: Den 5 november 2013, kl. 13-16.10, T40, Geovetenskapens hus, Stockholms universitet

Närvarande styrelseledamöter: *Cynthia de Wit, ordförande*
Dan Henningson, KTH
Martin Jakobsson, prefekt IGV
Marianne Lilliesköld, Naturvårdsverket
Michael McLachlan, prefekt ITM
Michael Tjernström, prefekt MISU
Arjen Stroeven, prefekt INK

Närvarande med yttranderätt: *Alasdair Skelton, direktör för Bolincentret*
Karin Jonsell, vetenskaplig koordinator för Bolincentret

Frånvarande: *Erik Kjellström, Rossbycentret*
Leonard Barrie, vetenskaplig direktör för Bolincentret
NN, studentrepresentant

Protokollförare: *Karin Jonsell*

§ 1	Mötets öppnande Ordförande hälsade välkommen.
§ 2	Protokollförare Karin Jonsell utsågs till protokollförare. <ul style="list-style-type: none">• Styrelsen beslutade att utse Karin Jonsell till permanent protokollförare
§ 3	Protokollsjusterare Arjen Stroeven utsågs att justera dagens protokoll.
§ 4	Fastställande av dagordning Dagordningen fastställdes med dessa tillägg: <ul style="list-style-type: none">§6 & §7 Punkterna slås samman till en punkt.§18 Punkten bordläggs till nästa möte.
§ 5	Föregående mötes protokoll Lades till handlingarna.
§ 6	En långsiktig strategi och Bolincentrets framtida finansiering Alasdair Skelton presenterade sina egna tankar om en långsiktig strategi för Bolincentret, se appendix 1. Styrelsen tyckte att en långsiktig strategi var ett mycket bra initiativ. Bolincentret är ett naturligt sammanhållande forum för den klimatrelaterade forskningen hos partnerna och en strategi skapar struktur och stabilitet. En långsiktig strategi måste vara ett kort och överblickbart levande dokument som

	<p>dessutom kompletteras med en mer detaljerad verksamhetsplan för det kommande året.</p> <p>Det är viktigt att strategin utarbetas i nära samarbete med institutionsledningarna så att de blir ännu mera delaktiga i Bolincentret vilket är viktigt för att i framtiden vilja finansiera den administrativa överbyggnaden hos Bolincentret vilket säkrar centret långsiktigt.</p> <p>Strategin måste självklart ta upp möjliga vägar till en framtida finansiering av centret. Interna och externa finansieringsalternativ diskuterades. Styrelsen beslutade att ge direktörerna i uppdrag att skriva de första utkasterna på en långsiktig strategi för Bolincentret och en verksamhetsplan för nästa år. RA-ledarna bör intervjuas inför detta arbete och styrelsemedlemmarna och dekanus bör få ge synpunkter. Utkasterna ska presenteras vid styrelsens första möte nästa år.</p> <p>Styrelsen diskuterade möjligheten att producera en årsrapport för att göra Bolincentret mer synligt. Det behövs material som är aktuellt för distribution och den gamla broschyren har varit till mycket nytta i detta sammanhang, men är föråldrat och ej användbar idag.</p> <ul style="list-style-type: none"> • Styrelsen bad direktörerna att inkludera en kommunikationsplan i strategidokumentet och verksamhetsplanen.
§ 7	<p>Mandatet för den externa vetenskapliga rådet</p> <p>Cynthia de Wit, Alasdair Skelton och Leonard Barrie har haft ett möte med Johannes (Hans) Oerlemans som ingick i det förra externa vetenskapliga rådet. De diskuterade vad ett framtida externa vetenskapliga råd ska bidra med och till vilka de ska rapportera. Leonard Barrie hade skrivit ett arbetsplan med tidsram för detta arbete, se appendix 2.</p> <ul style="list-style-type: none"> • Styrelsen godkände Leonard Barries arbets- och tidsplan och bad direktörerna att skriva ett utkast till mandatet för det externa vetenskapliga rådet. Efter en revisionsrunda med styrelseordföranden, ska utkastet skickas ut till nästa Bolin Centre styrelsemöte för diskussion. • Styrelsen bad direktörerna att i mandatet inkludera det externa vetenskapliga rådets medverkan i den kommande strategiplanen.
§ 8	<p>Kommande utvärderingar av Bolincentret</p> <p>Den årliga utvärderingen av hur de strategiska forskningsmedlen för klimatmodellering har använts ska lämnas in under tidig vår 2014. Den större utvärderingen av Bolincentret förbereds under 2014. Eftersom klimatmodelleringsarbetet har integrerats med övrig klimatvetenskaplig verksamhet inom Bolincentret, bör den större utvärderingen omfatta hela centret. Även ledningen på Stockholms universitet måste involveras i detta arbete.</p> <ul style="list-style-type: none"> • Eftersom avsikten med moduleringsinitiativet är att styrka Bolincentret i sin helhet beslöt Styrelsen att hela centret ska ingå i de kommande utvärderingarna av de strategiska forskningsmedlen för klimatmodellering. • Styrelsen bad Bolincentrets direktör att ta det övergripande ansvaret för utvärderingarna.

§ 9	<p>Utökat stöd för Bolincentrets koordination</p> <p>Bolincentrets vetenskapliga koordinatör, Karin Jonsell, hade tagit fram ett underlag som listar de olika arbetsuppgifter som behövs för att både koordinera arbetet inom centret samt kommunicera inåt och utåt, se appendix 3. Både typer av uppgifter är viktiga för att Bolincentret ska fungera optimalt och synas utåt. Dessa uppgifter fyller mer än en heltidstjänst för koordinatören och det finns ett behov av förstärkning. Styrelsen diskuterade särskilt behovet av en kommunikationsstrategi och en större kommunikationsbudget som angelägna med tanke på den framtida strategin och behovet att synliggöra centret bättre. Alasdair Skelton lade fram ett förslag om möjligheten att omfördela en del medel internt vid Bolincentret för att lösa problemet. Förslaget lämnas till styrelsen i samband med budget för 2014.</p>
§ 10	<p>Utbyte av kontaktperson för området klimat inom SUs ledande forskningsområde <i>Klimat, hav och miljö</i></p> <p>Stockholms universitet har två kontaktpersoner för det ledande forskningsområde klimat: Johan Kleman, INK, och Gunilla Svensson, MISU. Johan Kleman har avgått som Bolincentrets direktör och är nu utsedd till rektorsråd. Ett förslag har kommit att en av de nya direktörerna för Bolincentret bör ersätta Johan Kleman i den funktion.</p> <ul style="list-style-type: none"> • Bolincentrets styrelse rekommenderar att Leonard Barrie ersätter Johan Kleman som kontaktperson för klimat inom det ledande forskningsområdet <i>Klimat, hav och miljö</i>. Styrelseordförande informerar fakultetsdekanen och Johan Kleman om beslutet så informationen kan ändras på fakultetens hemsida.
§ 11	<p>Diskussion av de nominerade för Bert Bolin-föreläsningen 2014</p> <p>I enlighet med den fastlagda planen och i samråd med direktorn har den vetenskapliga direktören tagit fram en kortlista på tre personer från de totalt nio nominerade till Bert Bolin-föreläsningen 2014, se appendix 4.</p> <ul style="list-style-type: none"> • Styrelsen diskuterade förslaget och rekommenderar de nominerade i den ordning de är listade. <p>Direktörerna måste inhämta åsikter från Stockholms Resilience Centre innan listan skickas till fakulteten för beslut.</p>
§ 12	<p>Diskussion av en FAQ-avdelning på hemsidan för klimat-skeptiska frågor</p> <p>Erik Kjellström har föreslagit via email att man inte ska ha en sida enbart för att möta skeptiker. Det leder lätt till konfrontation och ger intrycket att vi går i försvarsställning. Det är mycket bättre med generella FAQs om klimat och klimatförändringar i en lite bredare bemärkelse. SMHI har redan en sådan sektion på sin hemsida under fliken kunskapsbanken. (http://www.smhi.se/kunskapsbanken/klimat/klimatforandringar-1.7206).</p> <p>Även MISU har en del sådan information på sin hemsida. Det kan vara mer ändamålsenligt att länka till dessa sidor från Bolincentrets sida, istället för att skapa något eget.</p>

§ 13	<p>Diskussion om byte av email-adresser för medlemmar i Bolincentret</p> <p>Stockholms universitet vill inte erbjuda emailadresser av typen N.N@bolin.su.se utan bara N.N@su.se.</p> <ul style="list-style-type: none"> • Styrelsen beslutade att Bolinforskarna inte ska erbjudas att byta email-adresser, men att det vore bra om den vetenskapliga koordinatören har en generell adress av typen bolin@su.se.
§ 14	<p>Rapportering om registrering av Bolincentrets faciliteter</p> <p>Punkten bordläggs tills vidare.</p>
§ 15	<p>Forskarutbildning i klimatvetenskap</p> <p>Förslaget har diskuterats inom de fyra institutionerna, men institutionerna anser att förslaget måste utvecklas mer. Det finns risk att den föreslagna forskarutbildningen urholkar befintliga program vid vissa av institutionerna, men samtidigt skulle en gemensam forskarutbildning i klimatvetenskap vid alla fyra institutioner förstärka Bolincentret totalt.</p> <ul style="list-style-type: none"> • Styrelsen är positiv till idén om en gemensam forskarutbildning i klimatvetenskap vid de fyra institutionerna som ingår i Bolincentret. Detta skulle förstärka hela Bolincentret, men utformning behöver diskuteras vidare. • Styrelsen ber dess ordförande därmed att skriva till prefekterna på de fyra institutionerna med styrelsens önskan om en gemensam forskarutbildning i klimatvetenskap.
§ 16	<p>Arbetsgrupp för att utveckla en grundkurs i klimatvetenskap</p> <p>När det gäller utvecklingen av en 30 hp distanskurs i klimatvetenskap på grundläggande nivå inväntas representanter från alla institutioner.</p> <ul style="list-style-type: none"> • Styrelsen beslutade att arbetsgruppen ska fortsätta med utveckling av en 30 hp distanskurs i klimatvetenskap på grundläggande nivå.
§ 17	<p>Information</p> <ul style="list-style-type: none"> • Bolincentrets representation vid AGU 2013 <ul style="list-style-type: none"> ○ Bolincentrets monter kommer att ha hög profil. • Bolindagarna 20-21 november <ul style="list-style-type: none"> ○ Karin Bojs kommer att hålla ett föredrag om vetenskapspopularisering. • Bolinskolan för barn <ul style="list-style-type: none"> ○ Bolincentret kommer inte att åka till Vetenskapsfestivalen i Göteborg utan utveckla sitt eget alternativ i Stockholm. Vi kommer att samarbeta med Vetenskapens hus/Naturens hus och erbjuda aktiviteter för skolklasser på låg- och mellanstadiet. • Gemensam webbaserat almanacka för Bolincentrets institutionerna <ul style="list-style-type: none"> ○ En arbetsgrupp håller på att ta fram en lösning för att bättre sprida information om intressanta aktiviteter via en elektronisk webbaserat almanacka för evenemang. ○ ITM, INK, IGV, MISU, Bolincentret och Östersjöcentrum är med i första omgången, men deltagarna kommer troligen att bli fler senare.

	<ul style="list-style-type: none"> ○ Kalendrarna ska testköras i större omfattning inom kort och kommer troligen att tas i fullt bruk efter jul. • Erik Kjellström är nu ledamot av styrelsen för Bolincentret enligt ett beslut av Naturvetenskapliga fakulteten vid Stockholms universitet.
§ 14	<p>Övriga frågor</p> <ul style="list-style-type: none"> • Inga övriga frågor.
§ 15	<p>Nästa möte</p> <p>Nästa möte äger rum 2 december kl. 9-12 i T40, Geovetenskapens hus.</p> <p>Mötet efter det äger rum 3 februari kl. 13-16 i T40, Geovetenskapens hus.</p>

Vid protokollet:

Karin Jonsell

Justeras:

Cynthia de Wit

Arjen Stroeven

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Appendix 1



A five year plan for the Bolin Centre – some preliminary thoughts

Alasdair Skelton

Director of the Bolin Centre for Climate Research



SMHI

Bolin Centre for Climate Research



Stockholm
University

Climate **research** at the Bolin Centre – my thoughts so far ...

- Scientific **breadth**: six research areas uniting meteorologists, geologists, oceanographers, physical geographers and environmental scientists
- Scientific **focus**: e.g. Arctic amplification of climate change
- Scientific **profile**: at the **interface** between *past* and *present* climate measurement and *future* climate modeling

Our science is our identity for every form of communication.

Climate **education** at the Bolin Centre – my thoughts so far ...

- probably **no** research program in climate science, but a continued **Climate Research School** coordinating courses about climate
- undergraduate education in climate science?
- educating society – focus on school children: **“Bolinskola”**
“Bolindagarna för barn”, school visits, science festivals, ...

Communicating climate science - my thoughts so far ...

- to **our colleagues**: Bolin Days, Bolin Climate Lecture, ...
- to **our peers**: papers, conferences (AGU ...)
- to **society**: IPCC, media, ...

We need to teach our scientists to communicate climate science **effectively** – a good presentation is one that is understood by its audience. We need Bolin Centre presentations to be recognized for **clarity** and **excellence**

Long term **structure** of the Bolin Centre - my thoughts so far ...

- a **focal point** for climate research, climate education and communication of climate science at Stockholm University
- a **Director**, 3 year mandate, but what percentage?
- support for **communication** of Bolin Centre science
- support for **coordination** of Bolin Centre activities
- some **research area funds** to support climate research, but how much?

Long term **funding** of the Bolin Centre - my thoughts so far ...

- Bolin Centre science will need to be funded **externally** by, e.g. European or national grant/s – applied for by the Bolin Centre or by constellations of Bolin Centre scientists? This will depend on the call. Support from forskningservice.
- Bolin Centre management may need to be funded **internally**
- **Fund-raising** – we need to develop a Bolin Centre “package” – this should focus on our science.

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Appendix 2

Appendix 2

Arbetsplan för implementeringen av Bolincentrets externa vetenskapliga råd

1. Leonard provides a draft whitepaper for review by Alasdair and Cynthia by 12 November
2. Leonard incorporate the comments by 18 November
3. Then we submit it to the Board on 20 November for comments and discussion at the next meeting.

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Appendix 3

29 October, 2013

Possible tasks for the Bolin Centre Science Coordinator

Here is a list of possible tasks for the Bolin Centre Science Coordinator. A lot can be done, but we have to choose. Hard “value for time spent”-priorities for my time is needed.

Best regards,
Karin Jonsell, Science Coordinator, Bolin Centre for Climate Research

Governance Support

When	What	What to do	In collaboration with
Once a week	Directorate meetings	<ul style="list-style-type: none"> • Actions 	Alasdair Skelton Leonard Barrie
6 per year	Board meetings	<ul style="list-style-type: none"> • Organise meetings • Calls • Agenda preparation • Practicalities • Minutes 	Cynthia de Wit Alasdair Skelton Leonard Barrie
6 per year	Science Advisory Group Meetings	<ul style="list-style-type: none"> • Organise meetings • Calls • Agenda preparation • Practicalities • Minutes 	Alasdair Skelton Leonard Barrie
None yet	External Advisory Group	<ul style="list-style-type: none"> • Organise meetings • Calls • Practicalities • Minutes • Information packages of what’s going on at the Bolin Centre 	Leonard Barrie
On going	Members list of centre people	<ul style="list-style-type: none"> • Who are included in the centre? • Get possible people to register 	RA leaders
None yet	Bolin centre documents and accomplishments archive	<ul style="list-style-type: none"> • Organise documents and facts for record keeping and easy access 	Alasdair Skelton Cynthia de Wit Johan Kleman

Activity reporting and development

When	What	What to do	In collaboration with
January 2014	Year report on modelling funds	<ul style="list-style-type: none"> • Support in writing the funding report 	Alasdair Skelton Leonard Barrie Gunilla Svensson RA leaders
Autumn 2014	Final report on modelling funds	<ul style="list-style-type: none"> • Support in writing the funding report 	Alasdair Skelton Leonard Barrie Gunilla Svensson RA leaders

			Vice Chancellor's office
None yet	Applications for new funds	<ul style="list-style-type: none"> • Support in writing applications for new funding 	Alasdair Skelton Leonard Barrie Gunilla Svensson RA leaders
None yet	Fundraising	<ul style="list-style-type: none"> • Support fundraising initiatives • Promotional material • Help scientists with presentations 	Alasdair Skelton Leonard Barrie Johan Kleman RA leaders
First contacts made	Collaborations with other organisations	<ul style="list-style-type: none"> • Organisation of contacts with other organisations with interesting and complimentary research, e.g. EkoKlim and Stockholm Resilience Centre, both at Stockholm University. 	Leonard Barrie
None yet	Rewarding system for outreach activities	<ul style="list-style-type: none"> • Internal lobbying at the University of a rewarding system for scientists doing outreach activities 	

Recurring and non-recurring events

When	What	What to do	In collaboration with
Frequent	Bolin Seminars	<ul style="list-style-type: none"> • Organise seminars • Advertise • Practicalities 	Hosting scientist
Four times per year	Bolin Science Forum	<ul style="list-style-type: none"> • Organise seminars • Advertise • Practicalities 	Leonard Barrie
May each year	Bert Bolin Lecture	<ul style="list-style-type: none"> • Call for nominations • Advertise • ...? 	Leonard Barrie Faculty of Science
November each year	Bolin Days Workshop	<ul style="list-style-type: none"> • Organise meeting • Advertise • Practicalities • Help scientists with presentations? • Give presentation about communication 	Alasdair Skelton Dan Zetterberg RA leaders
None yet	Internal cross cutting theme events (e.g. ICOS, Arctic)	<ul style="list-style-type: none"> • Organise meetings • Advertise • Practicalities • Help scientists with presentations? 	Hosting Scientist
Infrequent	External partnerships and events (e.g. Vice-Chancellor's visit, IPCC symposium)	<ul style="list-style-type: none"> • Organise meetings • Advertise (if applicable) • Press release(s) (if applicable) • Help scientists with presentation(s) • Practicalities 	Leonard Barrie Alasdair Skelton Scientists
None yet	RA workshops	<ul style="list-style-type: none"> • Organise meetings? 	RA Leaders

		<ul style="list-style-type: none"> • Calls? 	
None yet	Climate modelling coordination	<ul style="list-style-type: none"> • Organise meetings? • Calls? 	Gunilla Svensson
None yet	Data base coordination	<ul style="list-style-type: none"> • Organise meetings? • Calls? 	Håkan Grudd
None yet	Climate Research School	<ul style="list-style-type: none"> • Organise meetings? • Calls? • Minutes? 	Alasdair Skelton Björn Gunnarson

Communication

When	What	What to do	In collaboration with
None yet	Communications plan	<ul style="list-style-type: none"> • Write an overall plan for outreach and branding 	Alasdair Skelton Leonard Barrie Board
None yet	Sceptics plan	<ul style="list-style-type: none"> • Draw up a plan for how to handle climate sceptics • FAQ on the web site 	Alasdair Skelton Leonard Barrie RA leaders
On going	Graphical profile clarification and usage	<ul style="list-style-type: none"> • Clarify rules for usage of Bolin name and partner logos • Create a generic PPT template • Create/clarify the use of a generic poster template • Promote the use of the Bolin Centre as affiliation for scientists 	Communications Dep. Alasdair Skelton
On going	Bolin Centre materials	<ul style="list-style-type: none"> • Create a welcome pack for new and visiting scientists • Create a generic brochure • Create roll ups • Create post cards • Create T-shirts • Create bags • Create a background cloth for AGU • Create a table cloth for AGU (Elisabeth & Martin) • Create a generic film for AGU (Malin) 	Alasdair Skelton Malin Stenberg de Serves Elisabeth Däcker Inês Jakobsson Martin Jakobsson
Not yet	Web site structure and generic content	<ul style="list-style-type: none"> • Review with personas perspective, i.e. imagined persons from different target categories 	Inês Jakobsson Alasdair Skelton
On going	Website content	<ul style="list-style-type: none"> • Updates of people included, contacts details, photos, RA-affiliations, news, etc. 	Inês Jakobsson
Once a month	Com-group = Collaboration group for internal communication	<ul style="list-style-type: none"> • Create the group • Calls • Informal minutes 	Malin Stenberg d. S. Elisabeth Däcker Björn Eriksson

	and science & student outreach within sciences connected to climate research	<ul style="list-style-type: none"> • Actions 	... etc
On going	Common events calendar	<ul style="list-style-type: none"> • Create a web calendar for Bolin centre events and events at the departments and partners • Importable to personal calendar on phone and computers • On display on screen in the Geoscience building 	Björn Eriksson Com-group
Not started, but the gathering of images is on going	Image archive	<ul style="list-style-type: none"> • Organise storage facility • Create easy access archive categories • Collect images • Collect usage contracts 	Björn Eriksson Com-group Scientists Faculty Communications Dep.
None yet	Animations and infographics archive	<ul style="list-style-type: none"> • Gather / initiate making / making of animations and infographics for promotional materials 	
None yet	Presentation training	<ul style="list-style-type: none"> • Organise presentation technique training for all scientists at the centre 	Com-group Communications Dep.
Started	Presentations help	<ul style="list-style-type: none"> • Create presentations techniques material for distribution • Help scientists with their presentation structure, level and layout for outreach events 	Scientists
On going	Media contacts list	<ul style="list-style-type: none"> • Create a contacts list for media-available scientists in different research areas 	Board RA leaders
On going	Press pictures	<ul style="list-style-type: none"> • Decide on the need • Order photographer • Choose pictures 	Com-group
None yet	Media training	<ul style="list-style-type: none"> • Organise media training of key scientists or all scientists at the centre 	Com-group
None yet	Networking and lobbying	<ul style="list-style-type: none"> • Investigate the scientist's useful contacts • Investigate journalists and media • Contact press for media coverage • Actively promoting Bolin scientists to answer "Ask a scientist" etc. • Contact important people for Bolin presentations at meetings • Organize "Brown paper bag seminars" 	Communications Dep. Scientists
Started	Press releases	<ul style="list-style-type: none"> • Help writing press releases for interesting scientific results 	Scientists Communications Dep.

None yet	Popular science articles	<ul style="list-style-type: none"> • Help writing popular science articles of interesting scientific results 	Scientists Communications Dep.
None yet	Story telling project at Stockholm University (Collection of short interesting stories from employees for usage in promotional material)	<ul style="list-style-type: none"> • Promote the idea • Help writing the stories 	Scientists Communications Dep.
None yet	Public events at the University and Science festivals like “Vetenskapsfestivalen” “ForskarFredag” etc	<ul style="list-style-type: none"> • Contact festivals and promote our scientists • Organise participating scientists • Help scientists with presentations 	Communications Dep. Scientists
Not participated yet	Childrens outreach materials like IPCC-Skola project	<ul style="list-style-type: none"> • Come up with ideas (a lot can be done!) • Organize and/or develop material. 	Alasdair Skelton Scientists
Started	Films at the Bolin Youtube cannel	<ul style="list-style-type: none"> • Create a Bolin Youtube channel • Short films about current results and scientists at the centre • Bolin Centre history film(s) featuring Rodhe, Kleman & Barrie 	Björn Eriksson Stella Papadopoulou Malin Stenberg d. S. SU It- & Media

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Appendix 4a

An Implementation Plan for the Annual Bert Bolin Climate Lecture

Leonard Barrie, Director for Research, Bolin Centre for Climate Research

Background

On the 25 February 2008, the Faculty of Science of Stockholm University passed a resolution establishing the Annual Bolin Climate Lecture in honour of Bert Bolin's efforts in climate research (Annex 1.1). Since that time, there have been six lectures delivered by prominent experts in May of each year (Annex 2). The organization and implementation of the lectures have mainly been done by Henning Rodhe as Director of the International Meteorological Institute of Stockholm University and the Office of the Faculty of Science.

The Bolin Centre (www.bolin.su.se) is a multi-disciplinary consortium of approximately 160 researchers within Stockholm University that conducts fundamental research on critical processes in the climate system. It is a collaboration between the Departments of Meteorology, Applied Environmental Science, Physical Geography and Quaternary Geology and Geological Science at Stockholm University with additional participation by the FLOW Centre at KTH Royal Institute of Technology and the Rossby Centre at the Swedish Meteorological and Hydrological Institute.

The Bolin Centre was established in 2006 by the Faculty of Science and Johan Kleman was appointed Director. In January 2013, the directorship passed from Johan Kleman to the combination of Alasdair Skelton as Director and Leonard Barrie as Director for Research. On 20 May 2013, the Board of the Bolin Centre chaired by Cynthia de Wit agreed that there is a need for a review and development of an implementation plan for the Annual Bert Bolin Climate Lecture. It asked Leonard Barrie to take the lead working in close consultation with the Office of the Faculty of Science in preparing a draft plan for consideration by the Board in September 2013. This plan was developed through cooperation with the Dean Anders Karlhede and Åsa Borin of the Science Faculty Office and with input from Henning Rodhe and review by Alasdair Skelton.

Proposed Update to the Protocol

Since the protocol establishing the Annual Bert Bolin Climate Lecture (Annex 1.1) was completed in 2008, the Bolin Centre for Climate Research has matured with broad multidisciplinary participation of researchers across the four Stockholm University Departments involved. In selecting the annual lecture, it is important to formally open the nomination process to the Bolin Centre researchers and research managers and to the Stockholm Resilience Centre. Also, there is a need to correct terminology that has changed in five years. Proposed changes are shown in track changes in Annex 1.2.

Selection of the Annual Bert Bolin Climate Lecturer

Choosing the lecturer involves two important steps conducted by the Director(s), of the Bolin Centre for Climate Research, namely, a request for nominations according to the protocol (Annex 1.2) and a selection of a prioritized short list of two to three candidates based on the criteria listed below utilizing nomination letters and curriculum vitae of the candidates. A prioritized short list is desirable rather than just one candidate because it allows flexibility if cancellations occur. Finally, the Dean of the Faculty of Science approves the prioritized short list.

Criteria for Selection of Lecturer

Essential

- a. The quality and recognition of a candidate's research related to climate and Earth system science
- b. The ability to communicate to a broad science, policy and public audience of all ages

Desirable

- c. Over the years achieve a balance in the topics covered so that the major research areas in the Bolin Centre for Climate Research are involved (see Annex 2)
- d. Gender balance
- e. Candidate's willingness to engage in other outreach activities during the visit
- f. Candidate who has had personal experience with Bert Bolin's scientific or organizational legacy.

All is conducted according to the milestones, schedule and responsibilities outlined below.

Table 1 Candidate selection

Milestone	Date (Deadline)	Person(s) Responsible
Issue call for nominations to Bolin Centre researchers, advisory bodies and to the Stockholm Resilience Centre	1 July, re-issue 1 Sept. (15 October)	Directorate Bolin Centre
Finalize prioritized short list and submit to Faculty	1 November	Director(s) Bolin Centre
Approval of prioritized short list	15 November	Dean of the Faculty of Science
Finalize the selection of a candidate using the short list.	1 December	Director for Research, Bolin Centre
Appointment of a selected candidate	December Meeting	Board of the Faculty of Science
Notify the candidate officially	immediately after the appointment is approved.	Dean of the Faculty of Science

Implementing the Annual Bert Bolin Climate Lecture

Once the candidate is identified by the Director for Research of the Bolin Centre from the short list approved by the Dean of Faculty, the Office of the Faculty of Science and the Bolin Centre Directorate jointly organize the lecture in May. The responsibilities are split as follows:

Faculty Office Responsibilities

- organize the travel, accommodation and related logistics of the candidates visit in May to Stockholm (the visit can include three to four nights of accommodation and last for two to three days)
- book the lecture hall and oversee reception after
- organize the evening dinner at the faculty club with appropriate representation of staff and students.
- organize public outreach associate with the lecture (press conferences, attendance of education or other interest groups)

Bolin Centre Directorate Responsibilities

- finalize the title of the talk
- arrange science fora and lunches or dinners associated with the visit but not covered by the faculty of science (e.g panel discussions, technical lecture, laboratory tours etc)
- organize scientific outreach (website coverage, science writers etc.)

Table 2 Milestones in Implementation of the Annual Bolin Climate lecture

Milestone	Date (Deadline)	Person(s) Responsible
Finalize the date and venue of the lecture	15 February	Jointly by the Office of Faculty of Science and Bolin Centre Directorate
Finalize the science fora associated with the visit	15 April	Bolin Centre Directorate
Send candidate a detailed itinerary	15 April	Bolin Centre Directorate
Final meeting to review logistics and implementation	early May	Jointly by the Office of Faculty of Science and Bolin Centre Directorate

Annex 1.1 The original protocol

UTDRAG UR PROTOKOLL

Stockholms universitets
naturvetenskapliga fakultetsnämnd
(del.) 2008-02-25

ÄRENDE

BESLUT

<p>34. Bert Bolin Climate Lecture. Climate</p>	<p>Fakulteten beslutar inrätta Bert Bolin Lecture för att hedra Bert Bolins insatser inom klimatforskningen vid Stockholms universitet och i ett internationellt perspektiv.</p> <p>"Bert Bolin Climate Lecture" hålls årligen i mitten av maj av en framstående klimatforskare. Efter föredraget utdelas ett diplom till forskaren och på kvällen intas en middag med fakultetsledning och särskilt inbjudna forskare. Fakulteten står för resekostnader och logi, samt middagen.</p> <p>Föredragshållaren beslutas av fakultetsnämnden vid första vårsammanträdet. Föreståndaren för Bert Bolin Centre for Climate Research, lämnar förslag efter samråd med föreståndaren för SRC och prefekten för MISU.</p>
--	--

Detta beslut är fattat av fakultetens dekanus professor Stefan Nordlund på delegation av naturvetenskapliga fakultetsnämnden. Studentrepresentanter har informerats och haft tillfälle att yttra sig. Föredragande i ärendet har varit kanslichef Birgitta Eriksson.

Ur protokollet

Annex 1.2 Proposed protocol amendment

UTDRAG UR PROTOKOLL

Stockholms universitets
naturvetenskapliga fakultetsnämnd

ÄRENDE

BESLUT

<p>34. Bert Bolin Climate Lecture.</p>	<p>Fakulteten beslutar inrätta Bert Bolin Climate Lecture för att hedra Bert Bolins insatser inom klimatforskningen vid Stockholms universitet och i ett internationellt perspektiv.</p> <p>"Bert Bolin Climate Lecture" hålls årligen i mitten av maj av en framstående klimatforskare. Efter föredraget utdelas ett diplom till forskaren och på kvällen intas en middag med fakultetsledning och särskilt inbjudna forskare. Fakulteten står för resekostnader och logi, samt middagen.</p> <p>Föredragshållaren beslutas av fakultetsnämnden vid årets sista sammanträde. Föreståndarna för Bolin Centre for Climate Research, lämnar förslag efter samråd med Bolin Centrets styrelse, dess Scientific Advisory Group och föreståndaren för Stockholm Resilience Centre.</p>
--	---

Detta beslut är fattat av fakultetens dekanus professor Anders Karlhede på delegation av naturvetenskapliga fakultetsnämnden. Studentrepresentanter har informerats och haft tillfälle att yttra sig. Föredragande i ärendet har varit kanslichef Åsa Borin.

Ur protokollet

Annex 2 Annual Bolin Climate Lectures

Year	Title	Lecturer	Affiliation
2008	Linkages between Ozone Depletion and Climate Change: Evolution of the Science and Connections to Public Policy	Susan Solomon	Co-Chair IPCC AR4 WGI, NOAA ESRL Boulder USA (Now at: MIT Ellen Swallow Richards Professor of Atmospheric Chemistry & Climate Science)
2009	Dissecting the Roles of Aerosols and Greenhouse Gases in Climate Change: Scientific Understanding and Policy Implications	Venkatachalam "Ram" Ramaswamy	Director, NOAA, Geophysical Fluid Dynamics Laboratory, Princeton, USA
2010	Do We Know Enough to Go Ahead with Control of Greenhouse Gas Emissions?	Robert J. Charlson	University of Washington, Seattle, USA
2011	Rising Carbon Dioxide: A Never Ending Story	Ralph Keeling	Scripps Institution of Oceanography, USA
2012	The Climate during the Past 10,000 Years (the Holocene)	Sherilyn Fritz	University of Nebraska-Lincoln USA
2013	Future Development of Climate and Earth System Models for Scientific and Policy Use	Warren M. Washington	National Center for Atmospheric Research, Boulder USA

Tid och Plats: Den 5 september 2013, kl. 13-16, T40, Geovetenskapens hus,
Stockholms universitet

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Appendix 4b

25 October 2013

Analysis of Nominations for the Bert Bolin Climate Lecturer for 2014

Leonard Barrie and Alasdair Skelton

Directors of the Bolin Centre

In the selection process for Bert Bolin Climate lecturer 2014, this analysis constitutes the step after nominations (see Annex 1) in the Plan for the Annual Bert Bolin Climate Lecture that was adopted by the Faculty of Science in August 2013.

In taking this decision we would like to point out that in the objective screening we took into account that the past six lectures have the following characteristics:

- a) Two out of six were women.
- b) Four out of six were related to the atmospheric research areas of the Bolin Centre while one dealt with the biogeochemical research area and one with the recent to millennium scale climate variability research area.
- c) All six speakers were from the United States of America

Nine candidates were nominated. They are listed in Annex 2. After an objective screening of the candidates according to the criteria outline in Annex 1, we recommend the following shortlist of three candidates in order of priority.

1. Professor Corinne Le Quere University of East Anglia, UK Biogeochemical cycles
Professor Le Quere.
2. Professor Jennifer McElwain University College Dublin, Ireland, Long Term Climate and Ecosystems
3. Professor Ulrike Lohmann Swiss Federal Institute of Technology, Zurich, Aerosols and Climate.

These candidates are high quality, good communicators and well connected to climate research. Professor Le Quere stands out with Professor McElwain and Lohmann close to each other. We place Professor Lohmann third because four of the six last lectures have been related to the atmospheric research areas.

The only candidate with whom the Directors have worked with is Prof. Lohmann who, before going to ETH Zurich, was at Dalhousie University in Canada and worked on a project led by Prof. Barrie in the 1990s.

ANNEX 1

*From the “Plan for the Annual Bert Bolin Lecture “

Selection of the Annual Bert Bolin Climate Lecturer

Choosing the lecturer involves two important steps conducted by the Director(s), of the Bolin Centre for Climate Research, namely, a request for nominations according to the protocol (Annex 1.2) and a selection of a prioritized short list of two to three candidates based on the criteria listed below utilizing nomination letters and curriculum vitae of the candidates. A prioritized short list is desirable rather than just one candidate because it allows flexibility if cancellations occur. Finally, the Dean of the Faculty of Science approves the prioritized short list.

Criteria for Selection of Lecturer

Essential

- a. The quality and recognition of a candidate’s research related to climate and Earth system science
- b. The ability to communicate to a broad science, policy and public audience of all ages

Desirable

- c. Over the years achieve a balance in the topics covered so that the major research areas in the Bolin Centre for Climate Research are involved (see Annex 2)
- d. Gender balance
- e. Candidate’s willingness to engage in other outreach activities during the visit
- f. Candidate who has had personal experience with Bert Bolin’s scientific or organizational legacy.

All is conducted according to the milestones, schedule and responsibilities outlined below.

Table 1 Candidate selection

Milestone	Date (Deadline)	Person(s) Responsible
Issue call for nominations to Bolin Centre researchers, advisory bodies and to the Stockholm Resilience Centre	1 July, re-issue 1 Sept. (15 October)	Directorate Bolin Centre
Finalize prioritized short list and submit to Faculty	1 November	Director(s) Bolin Centre
Approval of prioritized short list	15 November	Dean of the Faculty of Science
Finalize the selection of a candidate using the short list.	1 December	Director for Research, Bolin Centre
Appointment of a selected candidate	December Meeting	Board of the Faculty of Science
Notify the candidate officially	immediately after the appointment is approved.	Dean of the Faculty of Science

ANNEX 2

Summary of Nominations for the 2014 Annual Bolin Climate Lecturer

Title	First name	Last name	Affiliation	Topic	Nominated by	Affiliation of nominator
Professor	Christopher	Field	Department of Global Ecology, Carnegie Institution for Science	Global ecology and climate change	Gretchen Daily	Stanford University
Professor	Inez	Fung	University of California, Berkeley	Interactions between climate change and biogeochemical cycles	Henning Rodhe	MISU
Professor	Gretchen	Daily	Stanford University	Countryside biogeography and the future dynamics of biodiversity change	Kevin Noon via Johan Ström	ITM
	Graham	Farquhar	Research School of Biology, The Australian National University	Atmosphere-vegetation interaction modeling	Christian Beer	ITM
Professor	Hans Joachim	Schellnhuber	Potsdam Institute for Climate Impact	Global Change Expert	Christian Beer	ITM
Professor	Veerabhadran	Ramanathan	Scripps Institution of Oceanography, University of California, San Diego	Atmospheric Brown Clouds	Leonard Barrie	Bolin Centre
Professor	Ulrike	Lohmann	Swiss Federal Institute of Technologi, Zürich	The role of aerosol particles and clouds in the climate system	Annica Ekman Bender Svensson Riipinen	MISU
Professor	Jennifer	McElwain	University College Dublin, Ireland	Palaeo-climate reconstructions, in particular using the terrestrial plant stomatal proxy	Margret Steinhorsdottir	IGV
Professor	Corinne	Le Quere	University of East Anglia	Global biogeochemical models	Agatha de Boer	IGV

Tid och Plats: Den 5 september 2013, kl. 13-16, T40, Geovetenskapens hus,
Stockholms universitet

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Appendix 4c

Dear Colleagues,

I nominate Corinne Le Quéré for the 2013 Bert Bolin Annual Lecture. Le Quéré is a professor of Environmental Science at the University of East Anglia and Director of the Tyndall Centre for Climate Change Research. She inspires in scientific leadership and her research is recognised as world leading and influence national and international climate policy. Among other rewards, she was recently awarded the 2013 Copernicus Medal of the Copernicus Gesellschaft.

Ingenious, innovative work in the geosciences and in the planetary and space sciences

Since the beginning of her career in the mid-1990s, Le Quéré has been among the world leaders in the development of global biogeochemical models and their innovative use to resolve key scientific questions. She advanced the field of marine biogeochemical modelling by spearheading the representation of marine ecosystem processes based on Plankton Functional Types in models. She was the first to demonstrate an impact of climate change on the capacity of the ocean to take up atmospheric CO₂ by developing an inverse method to constrain the trend in oceanic CO₂ sink in the Southern Ocean and a process model to test her hypothesis of the underlying processes driving the trends. Using combined models and observations focussed on specific time scales, she was also the first to quantify the contribution of the oceans to interannual variability in atmospheric CO₂ and of marine ecosystems to glacial changes in atmospheric CO₂. These two results led to important progress in the wider field, as reflected in the high number of citations of Le Quéré's work, only 14 years post PhD.

International cooperation and leadership

In the spirit of the Bert Bolin, Le Quéré has founded and co-chaired a number of international activities that have brought together traditionally separate communities to address questions of global significance, including the Global Carbon Project's annual Carbon Budget update, the Dynamic Green Ocean Project, the MARine Ecosystem Model Intercomparison Project, and the International summer schools of the Surface Ocean Lower Atmosphere Study project. Six of her first-author peer-reviewed papers include more than ten authors from between four and eleven different countries. She was also author of the Millennium Ecosystem Assessment, and of the 3rd, 4th and 5th Assessments of the Intergovernmental Panel on Climate Change (IPCC), awarded the 2007 Nobel Peace Prize jointly with Al Gore.

Exceptional promotion

The annual publication of the Global Carbon Budget by the Global Carbon Project, proposed by Le Quéré in 2005 and directed by her since the onset, has influenced climate science and climate policy in the UK and internationally. The effort has grown throughout the years, and now includes access to a full database on CO₂ emissions and their distribution among the atmosphere, ocean and land, an open-access and transparent methodology, and a PowerPoint presentation showing the latest trends in nice graphical format which are used widely by the community and beyond. The annual publication of those Carbon Budgets has been covered by 1459 media stories recorded worldwide between 2007 and 2012, 450 in the past year alone. Highlights of this effort were presented widely by others, including former US vice-president Al Gore, UK's HRH Prince of Wales, and even in the Hollywood movie 'The Island President'. Carbon Budget results have been requested by the European Commission, the Minister of the Environment in Germany, congressional advisers in the US, policy advisers in Sweden and the UK, and the Department of Climate Change in Australia. She had advised on climate change the UK prime minister Cameron in a private briefing, the Prince of Wales corporate leaders, UK Department of Energy and Climate Change, the Canadian Ambassador to London, UNDP International Waters Programme, EDF Energy strategic director and the Carbon Disclosure Project.

Le Quere has done research in physics, biology, and biochemistry; in paleoclimatology and future climate change; in observations and modelling. As a complement to Le Quere's scientific excellence, she is also a powerful and inspirational speaker. For these reasons, I believe it would do the Bolin Centre proud to have her as our speaker for the 2014 annual Bolin Lecture.




Agatha de Boer, Stockholm University

Tid och Plats: Den 5 september 2013, kl. 13-16, T40, Geovetenskapens hus,
Stockholms universitet

På följande sida/or finns

Appendix 4d

Agatha de Boer <agatha.deboer@geo.su.se> 
To: karin.jonsell@geo.su.se
Nomination for 2014 Bolin Lecture

14 oktober 2013 22:13

2 Attachments, 62 KB

Dear Karin,

I hereby nominate Corinne Le quere to present the 2014 Bolin Lecture. Le Quere is a professor of Environmental Science at the University of East Anglia and Director of the international Tyndall Centre for Climate Change Research. She has been a lead author of the last three IPCC reports and is the 2013 and first recipient of the Copernicus Medal of the Copernicus Gesellschaft. Le Quere is a fantastic speaker, still in the mids of a brilliant career, and it would be a great honor to have her as a Bolin Centre Lecturer. Please find attached a full nomination letter and CV.

Best regards,
Agatha

--

Agatha M. de Boer,
Associate Professor
Dept. of Geological Science and Bolin Centre for Climate Research
Stockholm University, 106 91 Stockholm, Tel: +46 8 16 4730
<http://people.su.se/~adebo>

Dear Colleagues,

I nominate Corinne Le Quéré for the 2013 Bert Bolin Annual Lecture. Le Quéré is a professor of Environmental Science at the University of East Anglia and Director of the Tyndall Centre for Climate Change Research. She inspires in scientific leadership and her research is recognised as world leading and influence national and international climate policy. Among other rewards, she was recently awarded the 2013 Copernicus Medal of the Copernicus Gesellschaft.

Ingenious, innovative work in the geosciences and in the planetary and space sciences

Since the beginning of her career in the mid-1990s, Le Quéré has been among the world leaders in the development of global biogeochemical models and their innovative use to resolve key scientific questions. She advanced the field of marine biogeochemical modelling by spearheading the representation of marine ecosystem processes based on Plankton Functional Types in models. She was the first to demonstrate an impact of climate change on the capacity of the ocean to take up atmospheric CO₂ by developing an inverse method to constrain the trend in oceanic CO₂ sink in the Southern Ocean and a process model to test her hypothesis of the underlying processes driving the trends. Using combined models and observations focussed on specific time scales, she was also the first to quantify the contribution of the oceans to interannual variability in atmospheric CO₂ and of marine ecosystems to glacial changes in atmospheric CO₂. These two results led to important progress in the wider field, as reflected in the high number of citations of Le Quéré's work, only 14 years post PhD.

International cooperation and leadership

In the spirit of the Bert Bolin, Le Quéré has founded and co-chaired a number of international activities that have brought together traditionally separate communities to address questions of global significance, including the Global Carbon Project's annual Carbon Budget update, the Dynamic Green Ocean Project, the MARine Ecosystem Model Intercomparison Project, and the International summer schools of the Surface Ocean Lower Atmosphere Study project. Six of her first-author peer-reviewed papers include more than ten authors from between four and eleven different countries. She was also author of the Millennium Ecosystem Assessment, and of the 3rd, 4th and 5th Assessments of the Intergovernmental Panel on Climate Change (IPCC), awarded the 2007 Nobel Peace Prize jointly with Al Gore.

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Canadian Ambassador to London, UNDP International Waters Programme, EDF Energy strategic director and the Carbon Disclosure Project.

Le Quere has done research in physics, biology, and biochemistry; in paleoclimatology and future climate change; in observations and modelling. As a complement to Le Quere's scientific excellence, she is also a powerful and inspirational speaker. For these reasons, I believe it would do the Bolin Centre proud to have her as our speaker for the 2014 annual Bolin Lecture.

Agatha de Boer

Agatha de Boer, Stockholm University



[Le_Quere_CV.pdf \(39 KB\)](#)

Tid och Plats: Den 5 september 2013, kl. 13-16, T40, Geovetenskapens hus,
Stockholms universitet

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Appendix 4e

Margret Steinthorsdottir <margret.stein@gmail.com> 

14 oktober 2013 17:18

To: Karin Jonsell <karin.jonsell@geo.su.se>

Re: [Bolincentret-at-su.se] Bolin Centre: Reminder of call for nominations to the Bolin Climate Lecture

1 Attachment, 98 KB

Dear committee

I nominate Professor Jennifer C. McElwain (University College Dublin, Ireland) to hold the Bolin Climate Lecture 2014.

Prof. McElwain is a highly recognised scientist in the field of palaeo-climate reconstructions, in particular using the terrestrial plant stomatal proxy - a proxy of which she was one of the main developer. Her research brings together many different aspects of Earth system science, such as the interaction of the biosphere (flora) and the atmosphere; the impact of CO₂, O₂ and SO₂ on individual plants and whole ecosystems, c-isotopes and carbon cycling, and the inter-relation of terrestrial and marine proxy datasets. She also studies plant evolution and physiology, in relation to geological time and palaeo-environments. In her research, Prof. McElwain utilises both fossil datasets, geochemical records and computer modelling, as well as modern plant datasets from state-of-the-art experimental growth chambers.

Prof. McElwain is furthermore a very good public speaker, highly approachable in her style, engaging, enthusiastic and inspiring. She has a long experience in speaking to audiences from all walks of life, including scientists, students, general audiences, and school children. She has indicated her willingness to give the Bolin Climate Lecture, and to participate in outreach and other activities.

I sincerely believe Prof. McElwain would do an outstanding job as the Bolin Climate Lecture 2014 speaker and hope you will strongly consider her.

Below is a short summary of Prof. McElwain's academic career so far, and a longer CV is attached.

Best regards,

Margret Steinthorsdottir, IGV and BCCR.

From <http://www.ucd.ie/plantpalaeo/mcelwain.html>: Jennifer C McElwain received her B.A. in Botany from Trinity College Dublin in Ireland in 1993 and her PhD in Paleobotany in 1997 from Royal Holloway College, University of London. She was a Natural Environment Research Council Post Doctoral research associate between 1997 and 1998 and a Leverhulme Postdoctoral Fellow between 1998 and 2000, at the University of Sheffield. McElwain held the position of Assistant Curator of Paleobotany at the Field Museum of Natural History in Chicago between 2000 and 2003 and then became Associate Curator of Paleobotany from 2003 until 2006, when she took up her current position as Lecturer and later Associate Professor in Plant Palaeoecology and Palaeobiology in UCD's School of Biology and Environmental Science. She is a Research Associate of the Field Museum and an Adjunct Associate Professor at Northwestern University, USA. She is currently the director of UCD's Plant Palaeoecology and Palaeobiology research group and team leader of a 1.75 million euro EU Marie Curie Excellence Grant, which seeks to investigate the causes and consequences of the fourth greatest extinction event in Earth history at the Triassic-Jurassic boundary, 200 million years ago. Her research interests include plant macroecology and macroevolution, mass extinction and the use of fossil plants as proxies for reconstructing paleoatmospheric composition (CO₂, O₂ and SO₂), paleoelevation and paleoclimate.



[mcelwain_cv....doc \(98 KB\)](#)

On 9 Oct 2013, at 10:33, Karin Jonsell <karin.jonsell@geo.su.se> wrote:

Dear all,

The Bert Bolin Lecture on Climate Research is given annually to commemorate professor Bert Bolin and his pioneering climate research at Stockholm University and internationally. The speaker is selected by the Faculty of Science among international scientists within climate research.

This is a reminder of the call for nomination for the Bolin Climate Lecture 2014

Deadline 15 October 2013

[Please see attachment](#)

Essential criteria for selection of Lecturer

- The quality and recognition of a candidate's research related to climate and Earth system science
- The ability to communicate to a broad science, policy and public audience of all ages

Desirable criteria for selection of Lecturer

- Over the years achieve a balance in the topics covered so that all the major research areas in the Bolin Centre for Climate Research are involved
- Gender balance
- Candidate's willingness to engage in other outreach activities during the visit
- Candidate who has had personal experience with Bert Bolin's scientific or organizational legacy

Who can nominate

- Members of the Bolin Centre for Climate Research
- Members of the Stockholm Resilience Centre

What to send

- Letter of nomination
- The curriculum vitae of the candidate

Address

- karin.jonsell@geo.su.se

Yours faithfully,
Dr. Karin Jonsell
Scientific Coordinator

*Bolin Centre for Climate Research
Stockholm University
SE-106 91 Stockholm, Sweden*

*Visiting Address:
Stockholm University
Department of Geological Sciences
Room R338B, Geoscience Building, Svante Arrhenius väg 8 C, Frescati
SE-114 18 Stockholm, Sweden*

karin.jonsell@geo.su.se
+46 (0)8 674 75 97
+46 (0)70 206 2445

<2014_BolinAnnualClimateLecture_CallForNomination.pdf>

Bolincentret-at-su.se mailing list
Bolincentret-at-su.se@lists.su.se
<https://lists.su.se/mailman/listinfo/bolincentret-at-su.se>

Margret Steinhorsdottir

Post Doctoral Researcher
Department of Geological Sciences &
Bolin Centre for Climate Research
Stockholm University
Stockholm
Sweden

Tid och Plats: Den 5 september 2013, kl. 13-16, T40, Geovetenskapens hus,
Stockholms universitet

På följande sida/or finns

Appendix 4f

Jennifer Claire McElwain: CV

CONTACT DETAILS

Professor Jennifer C. McElwain

School of Biology and Environmental Science,
University College Dublin, Ireland

Country of Residence: Ireland

Nationality: Irish

Date of Birth: 10th May 1972

Email: Jennifer.mcelwain@ucd.ie,

Personal web page: http://www.ucd.ie/bioenvsci/staff/academic/jennifer_mcelwain.html

Lab web page: www.ucd.ie/plantpalaeo

CAREER PROFILE

- 2012 Associate Professor, in Plant Palaeobiology and Palaeoecology, School of Biology and Environmental Science, University College Dublin, Ireland
- 2006-present Lecturer in Plant Palaeobiology and Palaeoecology, School of Biology and Environmental Science, University College Dublin, Ireland
- Director, Programme for Experimental Atmospheres and Climate (PÉAC)
- 2006-2010 Marie Curie Excellence Team Leader, School of Biology and Environmental Science, University College Dublin, Ireland
- 2003-present Adjunct Associate Professor, Department of Earth Sciences, Northwestern University, Evanston, IL, USA.
- 2006-present Research Associate, The Field Museum, Chicago, USA
- 2003-2006 Associate Curator/Associate Professor with full tenure, Department of Geology, The Field Museum of Natural History, Chicago, USA
- 2000-2003 Assistant Curator/Assistant Professor, Department of Geology, The Field Museum of Natural History Chicago
- 1998-2000 Leverhulme Postdoctoral Fellow, Department of Animal and Plant Sciences, University of Sheffield, UK
- 1997-1998 NERC Post doctoral research associate, Department of Animal and Plant Sciences, University of Sheffield, UK

STATEMENT OF ACCOMPLISHMENT

I am an international research leader in plant-environment interaction and ecosystem response to climate change. My research has focused on the development and use of stomatal-proxies for reconstructing CO₂ and investigations on stomatal function, evolution, development and physiology. My record of research excellence is demonstrated by senior author publications in the internationally acclaimed journals: *Nature* (McElwain *et al.* 2004), *Nature Geoscience* (Barclay *et al.*, 2010; Belcher *et al.*, 2010), *Science* (McElwain *et al.*, 1999, 2009, Belcher & McElwain, 2008) & *PNAS* (Mander *et al.*, 2010, Belcher *et al.*, 2011). In total I have published 41 internationally peer-reviewed papers, 4 book chapters and a leading co-authored undergraduate text book ‘*The Evolution of Plants*’ (Oxford University Press) which has sold over 5500 copies since 2002 and has been cited 302 times. My stature within the international research community is highlighted by a total citation record of 2018 and H-index of 23. Since joining UCD in 2006 I have successfully procured eleven highly competitive research grants as principal investigator or co-PI totalling over 4.5 million euro from EU FP6 and 7, Ireland and the US. Highlights include an EU Framework 6 Marie Curie Excellence grant (1.75 million euro), a Science Foundation Ireland PI grant (1.25 million euro) and an ERC starter grant (1.6 million euro).

EDUCATION

- 1993-1997 PhD Palaeobotany, Royal Holloway University of London (supervisor Professor William Chaloner FLS, FRS)
 - 1989-1993 BA Botany, Trinity College Dublin
 - Leaving cert: Dominican College Wicklow, County Wicklow, Ireland.
-

KEY ACHIEVEMENTS

- ERC ‘Starting Independent Researcher Grant’ awardee 2012.
- Presented over 40 invited international seminars & 40 conference presentations at International Colloquia in Europe (7 countries), Africa, China, Canada, US (eg. Cambridge, Oxford, Harvard, University of California, Berkeley & Santa Barbara, Utrecht University, The Netherlands, Purdue University, University of Michigan, The Smithsonian, University of Illinois).
- Reviewer for *Nature*, *Nature Geoscience*, *Science*, *PNAS*, *Rev. Pal. Pal.*, *New Phytologist*, *Global Change Biol.*, *Geology*, *PLOS* etc)
- Editorial Board, *Geology* 2005-2008, *Palaeobiology*, 2009-2012
- NSF panel member (2006)
- Leader of two arctic expeditions to Greenland (2002, 2004).
- NSF workshop invitee (1999, 2003)
- Invited to consult on the development of a major national ‘Variable Atmosphere Facility’ in the US, similar in specifications to PÉAC by NSF in 2009.
- Elected representative (under 40’s) Palaeontological Society (2004 -2006)
- External Expert Advisor (Uppsala University), External Examiner (Utrecht University, Victoria University, Australia).
- Contribution to public understanding of science via live television debates on global warming (WGN), interviews for radio (BBC radio 4, Chicago WBEZ, BBC World Service, RTE Radio 1) and television documentaries (RTE) & youtube video.
- Developed content for permanent and temporary exhibits at the Field Museum, Chicago (Evolving Planet, Arctic Wildlife National Refuge)
- Featured scientist of University of Berkeley, California’s ‘Understanding Evolution’ webpage http://evolution.berkeley.edu/evolibrary/article/mcelwain_01

HONOURS AND AWARDS

- Ireland’s Champions of EU Research Award 2012.
- PALAIOS Best Paper for 2011 award (v26, p.461-469)
- Nominee for Balzan Prize in Solid Earth Science (pending 2012)
- Plenary speaker for Centenary Meeting of the German Paleontological Society 2012
- Marie Curie Expert 2011, 2012 (Intra-European, International Incoming and Outgoing Fellowships)
- Featured scientist in L’Oreal’s *International Women in Science* (2008);
- Elected member on the Committee on Evolutionary Biology, University of Chicago 2001-2007
- 1998: Leverhulme Fellowship
- 1997: NERC Fellowship
- 1996: University of London Rita Madge Award for Academic Excellence
- 1995: University of London Webb Scholarship Award
- 1993: Trinity College Dublin, Senior Sophister Prize for best BA honours thesis.

FUNDING HISTORY

Period	Funding Agency	Amount	Title
2012-2017	SFI PI award	€1.25 MILLION	Predicting biome-level vegetation responses to future global change: Implications for future flood risk
2012-2017	European Research Council	€1.6 MILLION	Atmospheric Oxygen as a driver of Plant Evolution over the past 400 million years.
2012-2016	TEAGASC Walsh fellowship	€84,000	Can increased plant diversity in agronomic swards improve adaptation to drought?
2011-2015	National Science Foundation, USA	€500,000 (€19,000)	EAR1024737: Reconstructing atmospheric CO ₂ using fossil stomata through the Carboniferous (Montanez PI, UC Davis, McElwain, collaborator with €19,000 sub award)
2009-2011	UCD Seed Fund	€10,000	Tropical Arctic: The Science and Art of Lost Landscapes
2009-2011	UCD Seed Fund	€8,000	Atmospheric oxygen as a driver of plant evolution
2008-2011	Science Foundation Ireland (RFP)	€159,000	Reconstructing ancient CO ₂ using relict conifer stomata
2007-2010	National Science Foundation, USA	€320,000	Reconstructing CO ₂ and vegetation dynamics across the Cenomanian-Turonian OAE2 (McElwain Co-PI)
2007-2009	National Geographic	€24,000	Expedition to West Greenland. PI Stuart Robinson. (McElwain CO-PI)
2007-2010	Australian Research Foundation	\$500,000	450 Million year history of plant gas exchange capacity and the role of atmospheric carbon dioxide PI Peter Franks (McElwain Collaborator No funds to UCD)
2007-2010	IRCSET	€72,009	Evolution of stomatal function
2006-2010	Marie Curie Excellence (EU FP6)	€1.75 MILLION	Biodiversity dynamics at the Triassic-Jurassic mass extinction event: A novel approach to studying ecosystem responses to global climate change.
2002-2003	National Geographic	€18,813	Fossil floral dynamics spanning the Triassic-Jurassic extinction boundary in E. Greenland
2002-2004	Comer Found.	€56,994	Global warming. A geological perspective
2002-2005	National Science Foundation, USA	€105,000	Development of a novel CO ₂ -partial pressure based paleo-altimeter using stomata

TEACHING, MENTORING AND SUPERVISION

- Module coordinator: BOTN 40180, BOTN 30050
- Contribute to BIO 10090, 10070, 10030, ENVB30010, BIOL 40070, BIOL 40110.
- Supervised 2 to 4 BSc dissertation projects per year since 2006 at UCD
- Completed students: PhD 7 (Haworth, Punyasena, Mander, Barclay, Elliott-Kingston, Steinhorsdottir, Bacon)
- Completed MSc students 7

- Past Post-doctoral staff (Dr Claire Belcher, Dr Matthew Haworth, Dr Steffi Ickert-Bond, Dr Lenny Kouwenberg, Dr Richard Barclay).
- Current PhD students: Holohan (PRTL15), Haughey (TEAGASC Walsh Fellowship), Fae (co-supervised at University College London with Dr Stewart Robinson) and 3 pending PhD positions (ERC & SFI PI).
- Current taught MSc students: MacDara O Neill, Mary O Sullivan .

ADMINISTRATION

- Chair of UCD Rosemount Management Committee 2011-2012
- Head of School of Biology research theme 2010-2012
- School representative on UCD Science Promotion Committee 2006-2012
- Chair of PhD transfer and doctoral studies panel committees for over 10 students since 2006
- President's nominee on UCD University Research Strategy Board
- President's nominee on interview panel for College of Science Principal 2011
- Organizer of UCD Rosemount launch event with Minister Simon Coveney
- Member of PRTL15 working group
- Member of Earth Institute working group 2010 -2011.
- UCD reviewer for seed fund grants, SFI PI and RFP grant internal reviewer
- Internal reviewer for SFI PI site visits
- PhD intern examiner for School of Maths and School of Biology and Environmental Science
- Conference organizer, IPSAM 2010 at UCD, 20th Mid Continent Palaeobotany Meeting at the Field Museum of Natural History, Chicago.
- Conference session organizer at EGU, Vienna 2012, AGU, San Francisco, 2010
- Hinds Scholarship Fund Committee, University of Chicago 2002-2006.

PUBLICATIONS

Total Publications **51**. Journal Articles **45**. Book Chapters **4**. University Text Books **1**. Conference associated publications >30 published abstracts. Other **2**. My publications have been cited 2018 times and I have an H-index of 23 (source Google Scholar).

- 1.Mander, L., Kurschner, W.M., **McElwain, J.C.** (2012). Palynostratigraphy and vegetation history of the Triassic-Jurassic transition in East Greenland. *Journal of the Geological Society*, London. *in press*.
- 2.L Mander, CJ Wesseln, JC McElwain, SW Punyasena 2012 Tracking Taphonomic Regimes Using Chemical and Mechanical Damage of Pollen and Spores: An Example from the Triassic–Jurassic Mass Extinction *PloS one* 7 (11), e49153
- 3.Steinhorsdottir, M., Woodward, F.I., Surlyk, F., **McElwain, J.C.**, (2012). Deep-time evidence of a link between elevated CO₂ concentrations and perturbations in the hydrological cycle via drop in plant transpiration. *Geology*. 40 (9):815-818.
- 4.Mander, L., Wesseln, C.J., McElwain, J.C., Punyasena, S.W. (in review *PLOS ONE*), The preservation of pollen and spores across the Triassic-Jurassic transition in East Greenland.
- 5.Haworth, M., Elliott-Kingston, C., McElwain, J.C. (in review *Oecologia*) Co-ordination of physiological and morphological responses of stomata to elevated [CO₂] in vascular plants.
- 6.McElwain, J.C. (2011) Ferns: A xylem success story. *New Phytologist* **192**, 307-310.
- 7.**McElwain, J.C.**, Willis, K.J., Niklas, K. (2011) 'Long term fluctuations in atmospheric carbon dioxide concentration influence plant speciation rate' In: Hodkinson, T., Jones, M.,

- Parnell, J., Waldren, S (eds). *Climate Change and Systematics*. Cambridge: Cambridge University Press: Systematics Association Special Series.
8. Belcher CM, Yearsley JM, Hadden RM, **McElwain JC**, Rein G. (2011) Baseline Intrinsic Flammability of Earth's Ecosystems Estimated from Paleatmospheric Oxygen over the Past 350 Million Years. *Proceedings of the National Academy of Sciences of the United States of America* **107**(52): 22448-22453.
 9. Haworth M, Elliott-Kingston C., **McElwain JC**. (2011) The Stomatal CO₂ Proxy Does Not Saturate at High Atmospheric CO₂ Concentrations: Evidence from Stomatal Index Responses of Araucariaceae Conifers. *Oecologia* **167**(1): 11-19.
 10. Haworth M, Elliott-Kingston C., **McElwain JC**. (2011) Stomatal Control as a Driver of Plant Evolution. *Journal of Experimental Botany* **62**(8): 2419-2423.
 11. Steinhorsdottir M, Bacon KL, Popa ME, Bochner L. **McElwain JC**. Bennettitalean Leaf Cuticle Fragments (Here Anomozamites and Pterophyllum) Can Be Used Interchangeably in Stomatal Frequency-Based Palaeo-CO₂ Reconstructions. *Palaeontology* **54**: 867-882.
 12. Steinhorsdottir M, Jeram AJ. **McElwain JC**. (2011) Extremely Elevated CO₂ Concentrations at the Triassic/Jurassic Boundary. *Palaeogeography Palaeoclimatology Palaeoecology* **308**(3-4): 418-432.
 13. Bacon KL, Belcher CM, Hesselbo SP., **McElwain JC**. (2011) The Triassic-Jurassic Boundary Carbon-Isotope Excursions Expressed in Taxonomically Identified Leaf Cuticles. *Palaios* **26**(7-8): 461-469.
 14. Haworth, M., Gallagher, A., Elliott-Kingston, C., Raschi, A., Marandola, D., & **McElwain, J. C.** (2010). Stomatal index responses of *Agrostis canina* to CO₂ and sulphur dioxide: Implications for palaeo-[CO₂] using the stomatal proxy. *New Phytologist*, **188** (3), 845-855.
 15. Taylor, C. T., & **McElwain, J. C.** (2010). Ancient atmospheres and the evolution of oxygen sensing via the hypoxia-inducible factor in metazoans. *Physiology*, **25** (5), 272-279.
 16. Mander, L., Kürschner, W. M., & **McElwain, J. C.** (2010). An explanation for conflicting records of Triassic-Jurassic plant diversity. *PNAS*, **107** (35), 15351-15356.
 17. Belcher, C. M., Mander, L., Rein, G., Jervis, F. X., Haworth, M., Hesselbo, S. P., **McElwain, J. C.** (2010). Increased fire activity at the Triassic/Jurassic boundary in Greenland due to climate-driven floral change. *Nature Geoscience*, **3** (6), 426-429.
 18. Barclay, R. S., **McElwain, J. C.**, & Sageman, B. B. (2010). Carbon sequestration activated by a volcanic CO₂ pulse during ocean anoxic event 2. *Nature Geoscience*, **3** (3), 205-208.
 19. Haworth, M., Heath, J., & **McElwain, J. C.** (2010). Differences in the response sensitivity of stomatal index to atmospheric CO₂ among four genera of Cupressaceae conifers. *Annals of Botany*, **105** (3), 411-418.
 20. **McElwain, J. C.**, Wagner, P. J., & Hesselbo, S. P. (2009). Indicate sudden loss of late Triassic biodiversity in East Greenland. *Science*, **324** (5934), 1554-1556.
 21. Haworth, M., & **McElwain, J. C.** (2009). Reply to the comment on "hot, dry, wet, cold or toxic? revisiting the ecological significance of leaf cuticular micromorphology" by M. Haworth and J.C. **McElwain** [palaeogeography, palaeoclimatology, palaeoecology **262** (2008) 79-90]. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **273** (1-2), 209-211.
 22. Popa, M. E., & **McElwain, J. C.** (2009). Bipinnate ptilozamites nilssonii from Jameson Land and new considerations on the genera *Ptilozamites nathorst* 1878 and *Ctenozamites nathorst* 1886. *Review of Palaeobotany and Palynology*, **153** (3-4), 386-393.
 23. Punyasena, S. W., Mayle, F. E., & **McElwain, J. C.** (2008). Quantitative estimates of glacial and holocene temperature and precipitation change in lowland Amazonian Bolivia. *Geology*, **36** (8), 667-670.

24. Belcher, C. M., & **McElwain, J. C.** (2008). Limits for combustion in low O₂ redefine paleoatmospheric predictions for the Mesozoic. *Science*, 321 (5893), 1197-1200.
25. Royer, D. L., **McElwain, J. C.**, Adams, J. M., & Wilf, P. (2008). Sensitivity of leaf size and shape to climate within *Acer rubrum* and *Quercus kelloggii*. *New Phytologist*, 179 (3), 808-817.
26. Haworth, M., & **McElwain, J.** (2008). Hot, dry, wet, cold or toxic? Revisiting the ecological significance of leaf and cuticular micromorphology. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 262 (1-2), 79-90.
27. Punyasena, S. W., Eshel, G., & **McElwain, J. C.** (2008). The influence of climate on the spatial patterning of neotropical plant families. *Journal of Biogeography*, 35 (1), 117-130.
28. Barclay, R., **McElwain, J.**, Dilcher, D., & Sageman, B. (2007). The cuticle database: Developing an interactive tool for taxonomic and paleoenvironmental study of the fossil cuticle record. *Courier Forschung Institut Senckenburg*, 258 :35-59.
29. **McElwain, J. C.**, & Punyasena, S. W. (2007). Mass extinction events and the plant fossil record. *Trends in Ecology and Evolution*, 22 (10), 548-557.
30. **McElwain, J. C.**, Popa, M. E., Hesselbo, S. P., Haworth, M., & Surlyk, F. (2007). Macroecological responses of terrestrial vegetation to climatic and atmospheric change across the Triassic/Jurassic boundary in East Greenland. *Paleobiology*, 33 (4), 547-573.
31. Kouwenberg, L. L. R., Hines, R. R., & **McElwain, J. C.** (2007). A new transfer technique to extract and process thin and fragmented fossil cuticle using polyester overlays. *Review of Palaeobotany and Palynology*, 145 (3-4), 243-248.
32. **McElwain, J.C.**, Willis, K.J, Lupia, R. (2005) 'Cretaceous CO₂ decline and the radiation and diversification of angiosperms' In: Ehleringer J.R., Cerling T.E., Dearing M.D (eds). *A history of atmospheric CO₂ and its effect on plants, animals, and ecosystems*. New York: Springer.
33. Haworth, M., Hesselbo, S. P., **McElwain, J. C.**, Robinson, S. A., & Brunt, J. W. (2005). Mid-cretaceous pCO₂ based on stomata of the extinct conifer *Pseudofrenelopsis* (Cheirolepidiaceae). *Geology*, 33 (9), 749-752.
34. **McElwain, J. C.**, Wade-Murphy, J., & Hesselbo, S. P. (2005). Changes in carbon dioxide during an oceanic anoxic event linked to intrusion into Gondwana coals. *Nature*, 435 (7041), 479-482.
35. **McElwain, J. C.** (2004). Climate-independent paleoaltimetry using stomatal density in fossil leaves as a proxy for CO₂ partial pressure. *Geology*, 32 (12), 1017-1020.
36. Willis, K.J. and **McElwain, J.C.** (2002) *The Evolution of Plants*. Oxford University Press: Oxford.
37. Hesselbo, S. P., Morgans-Bell, H. S., **McElwain, J. C.**, Rees, P. M., Robinson, S. A., & Ross, C. E. (2003). Carbon-cycle perturbation in the middle Jurassic and accompanying changes in the terrestrial paleoenvironment. *Journal of Geology*, 111 (3), 259-276.
38. Kouwenberg, L. L. R., **McElwain, J. C.**, Kürschner, W. M., Wagner, F., Beerling, D. J., Mayle, F. E., et al. (2003). Stomatal frequency adjustment of four conifer species to historical changes in atmospheric CO₂. *American Journal of Botany*, 90 (4), 610-619.
39. **McElwain, J. C.**, Mayle, F. E., & Beerling, D. J. (2002). Stomatal evidence for a decline in atmospheric CO₂ concentration during the younger dryas stadial: A comparison with antarctic ice core records. *Journal of Quaternary Science*, 17 (1), 21-29.
40. **McElwain, J.C.** (2002) 'Is the greenhouse theory a fallacy: A paleontological paradox' *PALAIOS* 17 (5) :417-418.
41. **McElwain, J.C.** (2001) 'Atmospheric CO₂ - Stomata' In: Briggs D.E.G. and Crowther P.R (eds). *Palaeobiology II*. Oxford: Blackwell Science.

42. **McElwain, J. C.** (2000). 70 million years of vegetation dynamics. *Diversity and Distributions*, 6 (4), 205-206.
43. **McElwain, J.C.** (2000) 'Evolution of the Atmosphere' In: Singer R (eds). *Encyclopedia of Paleontology*. Chicago: Fitzroy Dearborn Publishers.
44. **McElwain, J. C.**, Beerling, D. J., & Woodward, F. I. (1999). Fossil plants and global warming at the triassic-jurassic boundary. *Science*, 285 (5432), 1386-1390.
45. **McElwain, J. C.** (1998). Do fossil plants signal palaeoatmospheric CO₂ concentration in the geological past? *Philosophical Transactions of the Royal Society B: Biological Sciences*, 353 (1365), 83-96.
46. Beerling, D. J., **McElwain, J. C.**, & Osborne, C. P. (1998). Stomatal responses of the 'living fossil' ginkgo biloba L. to changes in atmospheric CO₂ concentrations. *Journal of Experimental Botany*, 49 (326), 1603-1607.
47. **McElwain, J.C.** (1998) 'Past carbon dioxide levels and proxy indicators' *The Globe* 41 :9-10.
48. Chaloner, W. G., & **McElwain, J.** (1997). The fossil plant record and global climatic change. *Review of Palaeobotany and Palynology*, 95 (1-4), 73-82.
49. **McElwain, J. C.**, & Chaloner, W. G. (1996). The fossil cuticle as a skeletal record of environmental change. *Palaios*, 11 (4), 376-388.
50. **McElwain, J. C.**, & Chaloner, W. G. (1995). Stomatal density and index of fossil plants track atmospheric carbon dioxide in the palaeozoic. *Annals of Botany*, 76 (4), 389-395.
51. **McElwain, J.**, Mitchell, F. J., & Jones, M. B. (1995). Relationship of stomatal density and index of *Salix cinerea* to atmospheric carbon dioxide concentrations in the holocene. *Holocene*, 5 (2), 216-219.

Tid och Plats: Den 5 september 2013, kl. 13-16, T40, Geovetenskapens hus,
Stockholms universitet

På följande sida/or finns

Appendix 4g

Letter of Nomination for Bolin Centre Climate Lecture 2014

We would like to nominate Professor Ulrike Lohmann, ETH-Zurich, for the Bolin Centre Climate Lecture 2014. Ulrike Lohmann is a full Professor for Experimental Atmospheric Physics in the Institute for Atmospheric and Climate Science (IAC-ETH) since October 2004. Her research focuses on the role of aerosol particles and clouds in the climate system. Of specific interest are the formation of cloud droplets and ice crystals and the influence of aerosol particles on the radiation balance and on the hydrological cycle in the present, past and future climate. She combines laboratory work, field measurements, satellite data and different numerical models.

Ulrike Lohmann has published more than 200 peer-reviewed articles. She works or has worked in several international committees, among them as a lead author for the Fourth and Fifth Assessment Report of the Intergovernmental Panel for Climate Change (IPCC) and as a member of the scientific steering committees of ICCP, IGAC and the GEWEX Cloud System Studies (GCSS) Panel. She is an editor for the journal "Atmospheric Chemistry and Physics". At ETH, she is the head of the Institute for Atmospheric and Climate Science since 2006.

Ulrike Lohmann is also very active and appreciated as a teacher and has developed and taught several courses on a Bachelor and Master's level; for example "Atmospheric physics", "Cloud microphysics", "Cloud dynamics" and "Numerical modeling of weather and climate". She has also supervised more than 15 graduate students towards their PhD.

We believe that Ulrike Lohmann would be an excellent candidate for the Bolin Centre Climate lecture. She is a world-leading scientist within a field of climate science that, despite its crucial importance for the climate system, for long has been neglected, but where new knowledge now is emerging. She is also an engaging speaker with a keen interest in interacting with the rest of the science community as well as with the general public.

Annica Ekman, Frida Bender, Ilona Riipinen, Gunilla Svensson