



## CREATIVITY IN SCIENCE AND SOCIETY

A symposium celebrating Niels Bohr, 7-9 October 2013

Organized by The Royal Danish Academy of Sciences and Letters

In 1913, Niels Bohr published his three seminal papers on the atomic model. This calls for a centenary celebration by the Royal Danish Academy of Sciences and Letters where Niels Bohr served as president 1939-1962.

Niels Bohr will be celebrated in many ways during 1913, both for his specific achievements in physics and for his ambition as a global citizen to keep an open world. The Royal Danish Academy wants to direct the attention towards the intense creativity at Niels Bohr's institute at the University of Copenhagen.

The Symposium will address the question of how such a stimulating and creative environment could take off and keep flying. There is the personality and intellectual gifts of Niels Bohr and his collaborators, but there is also an intense time of discovery, an insatiable thirst for knowledge, a family life, and a national support, all of which contributed to the creative spirit that would lead to a host of fundamental breakthroughs in many fields.

To explore the multiple dimensions of creativity, we have invited c. 20 scholars from the natural, social, and human sciences, as well as artists, politicians and university leaders to present their views on how to capture and harness creativity.

**Venues:**

The Symposium will be held in Copenhagen, partly at the Carlsberg Academy (Monday) partly at the Royal Danish Academy of Sciences and Letters (Tuesday and Wednesday).

The Carlsberg Academy was built as the home of the Brewer I.C. Jacobsen in the mid-nineteenth century, and after the death of his son Carl, for whom the brewery was named, it was bequeathed as an honorary domicile to men of science, to be awarded by the Royal Danish Academy of Sciences and Letters, and financed by the Carlsberg Foundation. Niels

Bohr and his family lived there from 1932 to 1962. Today it is used as a venue for academic events and celebrations such as the Symposium on Creativity in Science and Society.



The address is:

Carlsberg Akademi  
Bryggerhesten 1  
1778 København

The building housing The Royal Danish Academy of Sciences and Letters and The Carlsberg Foundation is situated in the middle of Copenhagen just opposite the Carlsberg Glyptotek.



The address is

Det Kgl. Danske Videnskabernes Selskab  
H.C. Andersens Boulevard 35  
1553 København V

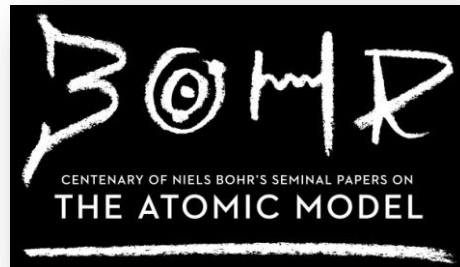
**Symposium secretariat:**

**Eva Bang-Hansen +45 25 36 07 70**

**DAY, 6 October**

19.00: "Copenhagen" at Glassalen in Tivoli

The English Theatre of Copenhagen presents a staged reading of Michael Frayn's award-winning play "Copenhagen" about the mysterious war-time meeting in 1941 between the two Nobel Prize Laureates, the Danish physicist Niels Bohr and the German physicist, Werner Heisenberg. The playwright re-imagines this extraordinary meeting and tests our feelings on the moral responsibilities of scientists. Vivienne McKee has adapted and directed this edited version of the play - starring Tony Wedgwood as Bohr, David Bateson as Heisenberg and Vivienne McKee as Margrethe Bohr. After the play, Nobel Laureate David Gross and Niels Bohr's grandson, Tomas Bohr, will enter the stage and answer questions from the audience and discuss some of the issues that the play touches upon.



## PROGRAMME FOR THE SYMPOSIUM

### MONDAY, 7 October

**Venue:** The Carlsberg Academy

8.30: Registration and light breakfast

8.50: Welcome by Kirsten Hastrup, President of the Academy

#### SESSION ONE: *Creativity: The Question of Scale*

9.00: Mihaly Csikszentmihalyi: *Creativity and flow*

9.30: Uri Alon: *Quantitative research on creativity*

10.00: Anna Tsing:

*Creativity versus the New "Evidence": When Scaling up does not add up*

10.30: Coffee break

11.00: Asger Aamund: *Building and Managing the Creative Organization*

11.30: Margrethe Vestager: *Creativity in Politics*

12.00: Vilhelm A. Bohr: *Niels Bohr: Family, Atmosphere, Creativity*

12.30: Lunch at the Carlsberg Museum & Business Centre

14.00: Guided tour of the Carlsberg grounds and visit to the Carlsberg Museum

16.00: End of the programme for the day

## TUESDAY, 8 October

### Venue: The Royal Danish Academy of Sciences and Letters

8.30: Coffee and a short introduction to the Royal Danish Academy of Sciences and Letters and venue, 1<sup>st</sup>. floor

#### SESSION TWO: *Copenhagen: The Intellectual and Artistic Environment*

9.00: Mogens Høgh Jensen:

*The Niels Bohr Institute: A Melting Pot for Creativity in Science*

9.30: Frans Gregersen: *Structuralism, Schools of Science and the Quest for Creativity*

10.00: Kirsten Hastrup: *Creativity as a Social Fact:*

*The Vitality of Eskimo Research in Copenhagen 1900-1935*

10.30: Coffee break

11.00: Suzanne Brøgger: *Fantasy and Imagination in the Life and Work of Karen Blixen*

11.30: Tomas Bohr: *Keeping Things Open*

12.00: Lunch at Nimb Terrasse in Tivoli

#### SESSION THREE: *Creative Fields: The Materiality of New Knowledge*

13.30: Dorthe Dahl-Jensen:

*The Creative Climate System observed from Greenland Ice Cores*

14.00: Roger Penrose: *Mathematics; its Power, its Beauty, its Creativity*

14.30 Ole Petter Ottersen: *The Creative Institution*

15.00: Coffee break

15.30: K. Vijay Raghavan:

*Accidents, Design and the Grasping of Nettles: The Building of a Biology Institution in India*

16.00: Marie-Louise Nosch and Ellen Harlizius-Klück:

*Textile Cosmos and the Atomic Model*

18.30: Conference dinner at Nimb Brasserie in Tivoli

## **WEDNESDAY, 9 OCTOBER**

**Venue: The Royal Danish Academy of Sciences and Letters**

SESSION FOUR: *Sources of Creativity: Private, Collaborative, Artistic*

9.00: Finn Aaserud: *Private Sources of Niels Bohr's Early Creativity*

9.30: Alexander Migdal: *Complementary Schools of Thought*

10.00: Julio M. Ottino:

*Creative Processes in Art, Science, and Technology: Insights from Visual Arts*

10.30 Coffee break

11.00: Thomas Bjørnholm:

*Collaborative Creativity is a Critical Phenomenon: Is it Scalable to the size of a University?*

11.30: Emil Bjerrum-Bohr: *Creativity in High Energy Physics*

12.00: Closing remarks by Kirsten Hastrup and Mogens Høgh Jensen

12.30: Lunch at Nimb Terrasse in Tivoli

End of Symposium