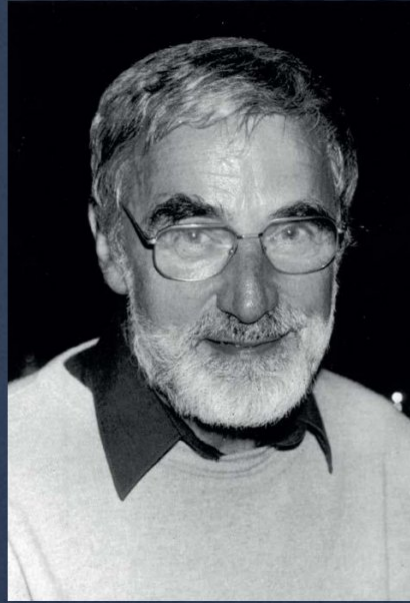
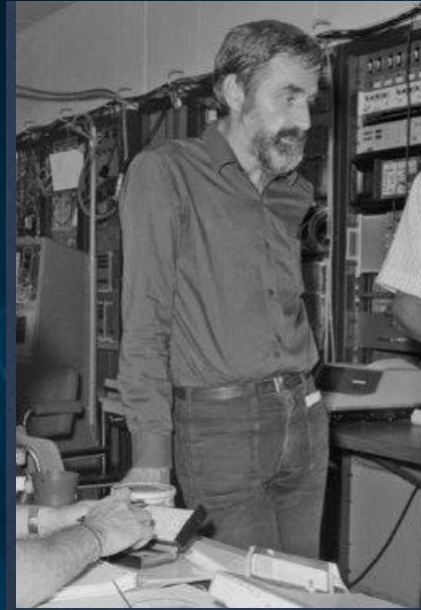


# Dieter Möhl Medal Awards

COOL'21

- The Dieter Möhl Medal is a CERN sponsored award to acknowledge the contributions of our colleagues working in the domain of particle beam cooling.
- First awarded at COOL'13 in Mürren.
- For 2021 two categories were retained:
  - *“Dieter Möhl Medal for individuals who have made outstanding contributions to the development and application of particle beam cooling”*
  - *“Dieter Möhl Medal to an early-stage researcher for recent, significant, and original contribution to the field of beam cooling”*
- Selection process:
  - Members of the International Advisory Committee send their nominations to the DM Medal Selection Committee.
    - The Selection Committee is comprised of five previous recipients of the award.
  - The committee examines the list of nominees, votes and informs the IAC of the choices.
    - Four recipients for COOL'21.

# Dieter Möhl (1936–2012)



- After obtaining his PhD in 1966 from the “Freie Universität Berlin” Dieter began his career at CERN under the supervision of Werner Hardt.
  - Outstanding contributions to the refinement of stochastic cooling theory proposed by Simon van der Meer in 1968.
  - Demonstration on ICE of the feasibility of stochastic cooling for the accumulation of antiprotons.
  - “Sabbatical” year at LBNL under Andy Sessler – theoretical aspects of an electron ring accelerator and an e-p collider.
- From the early 80’s a driving force behind CERN’s low energy antiproton programme.
  - Use of stochastic and electron cooling at LEAR.
  - Design of SuperLEAR.
  - Conversion of the Antiproton Collector (AC) to Antiproton Decelerator (AD).
  - Extra Low ENergy Antiproton ring (ELENA).

- Expert of world-wide reputation in stochastic cooling
  - Applications of electron cooling on accelerators
  - Ordered (crystalline) beams
  - Polarised beams
  - Beam stability issues
  - Schottky signal analysis
- 
- Lecturer at the CERN Accelerator School (CAS)
  - Played an important role in human rights issues
    - Co-founder of the Orlov Committee to provide help to Soviet dissidents in the 70/80s

## STOCHASTIC COOLING AND THE ACCUMULATION OF ANTIPROTONS

Nobel lecture, 8 December, 1984

by

SIMON VAN DER MEER

CERN, CH- 1211 Geneva 23, Switzerland

### ACKNOWLEDGEMENTS

The development of the stochastic cooling theory owes much to H. G. Hereward, D. Möhl, F. Sacherer, and L. Thorndahl.

Even after retirement in 2001 he continued to play an important role as consultant in many projects world wide:

GSF FAIR  
NICA  
ELENA



## *DIETER MÖHL AWARD 2021*

Dr. Fritz CASPERS



“FOR HIS LIFETIME WORK ON THE DEVELOPMENT OF RF ENGINEERING DEVICES FOR THE STOCHASTIC COOLING SYSTEMS OF THE CERN STORAGE RINGS AND WORLDWIDE STOCHASTIC COOLING PROJECTS”

PRESENTED BY:

ON THIS DAY:

*5<sup>TH</sup> NOVEMBER, 2021*





## DIETER MÖHL AWARD 2021

Dr. Alexei FEDOTOV



"FOR THE SUCCESSFUL DEMONSTRATION OF ELECTRON COOLING OF ION BEAMS IN A COLLIDER WITH AN RF ACCELERATED ELECTRON BEAM"

PRESENTED BY:

ON THIS DAY:

*5<sup>th</sup> NOVEMBER, 2021*





## *DIETER MÖHL AWARD 2021*

Dr. Andreas WOLF



*"FOR HIS PIONEERING WORK IN THE USE OF  
LOW ENERGY ELECTRON COOLERS IN MERGING  
ELECTRON BEAMS FOR ATOMIC AND  
MOLECULAR PHYSICS STUDIES"*

PRESENTED BY:

ON THIS DAY:

*5<sup>th</sup> NOVEMBER, 2021*





## *DIETER MÖHL AWARD 2021*

Dr. Chris ROGERS



*“FOR THE SUCCESSFUL DEMONSTRATION OF  
MUON IONISATION COOLING ON THE MICE  
MUON COOLING EXPERIMENT”*

PRESENTED BY:

ON THIS DAY:

*5<sup>th</sup> NOVEMBER, 2021*

