

Prof.dr. Birgit Pepin
June 2, 2023



VALEDICTORY LECTURE

From static to 'dynamic' and 'agentic' resources in mathematics education

TU/e

**EINDHOVEN
UNIVERSITY OF
TECHNOLOGY**

DEPARTMENT OF APPLIED PHYSICS AND SCIENCE EDUCATION

INVITATION

Prof.dr. Birgit Pepin was appointed as full professor of Mathematics/STEM Education at the Eindhoven School of Education (ESoE) of Eindhoven University of Technology (TU/e) on January 1, 2015. She will deliver her valedictory lecture on June 2, 2023.

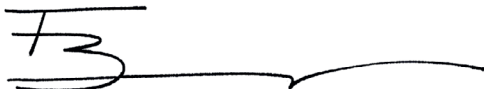
The Executive Board of Eindhoven University of Technology cordially invites you to attend the valedictory lecture of Prof.dr. Birgit Pepin on **Friday, June 2, 2023, at 4.00 PM**. The public lecture will be delivered in the Blauwe Zaal of the Auditorium. You do not need to register.

The title of the lecture is

'From static to 'dynamic' and 'agentic' resources in mathematics education'

After the lecture, drinks will be served in the Senaatszaal.

All full professors are invited to join the cortège. If you want to join the cortège, please register in advance with the P&P office which organizes all academic ceremonies, telephone +31 (0)40 247 25 15, e-mail: penp@tue.nl.



Prof.dr.ir. F.P.T. Baaijens

Rector Magnificus

After June 2, 2023, the text of the valedictory lecture will be available online at www.tue.nl/lectures.

Birgit Pepin (1956) received her MSc in Physics/Meteorology in Kiel, Germany. She subsequently moved from Germany to France and then to England, where she was educated as a teacher of mathematics at Oxford University (1990). After some years of teaching mathematics in secondary schools, she received a scholarship (ESRC) to study mathematics teacher mobility across Europe for her PhD (1998). During her subsequent career in higher education, she worked as an educator of mathematics teachers in several UK institutions (e.g. Manchester University) before taking up her first full professorship in Trondheim, Norway, in 2009. In January 2015, she joined TU/e as full professor of Mathematics/STEM education at ESoE. Birgit has published widely in prestigious mathematics education journals and handbooks and has served on (and chaired) many national and international projects and boards in mathematics education. Internationally, she has been a visiting professor at the ENS in Lyon, France (three times), and ECNU in Shanghai, China (twice), and she has been and still is visiting professor of Mathematics Education at NTNU in Trondheim, Norway.

About the lecture

In her valedictory lecture, Professor Pepin will look back on her academic career in the UK (where she lived for 26 years), in Norway, and particularly in the Netherlands. The theme will be the development and use of mathematics curriculum resources for and by teachers and students. Mathematics curriculum resources have always played an important role in the teaching and learning of mathematics both in and out of class. In recent years, curriculum resources have changed from static and text-based (e.g., textbooks) to dynamic and digital resources. Whilst both students and teachers can find a plethora of such resources on the web, it is often not clear which resources to choose (and how to evaluate their quality) or how to design coherent and effective mathematics learning environments and trajectories with the available resources. Students often want to be supported in driving their own learning, particularly in innovative (e.g., challenge-based) learning environments. In these environments, teacher and student responsibilities change, and agency becomes distributed across teachers, students and 'agentic' mathematics resources.

Visiting address Auditorium, Building 1, Groene Loper, Eindhoven

Navigation address De Zaal, Eindhoven, www.tue.nl/map