From left to right:

Prof.dr. Nienke Nieveen was appointed as a full professor of Curriculum Design in STEM Education on October 1, 2022.

Prof.dr. Jan van der Veen was appointed as a full professor of Teacher Professional Development in Secondary & Higher STEM Education on February 1, 2021.

Prof.dr.ir. Esther Ventura-Medina was appointed as a full professor of Innovation in STEM education on November 1, 2022.

Eindhoven School of Education, Department of Applied Physics and Science Education, Eindhoven University of Technology.

Nienke, Esther and Jan will jointly deliver their inaugural lecture on March 7, 2024, at 16.00. The inaugural lecture will be preceded by a symposium dedicated to the themes of the lecture from 13.30-15.00.
ABOUT THE LECTURE

Societal challenges related to the Sustainable Development Goals of the United Nations require the awareness and action of all citizens. Science, Technology, Engineering, and Mathematics (STEM) education plays a pivotal role in this. Comprehensive understanding of the world around us and skills to jointly contribute to a better world are essential for all citizens to make progress on goals such as climate change, zero hunger, clean water and clean energy. Schools and universities are developing education to meet these needs, with some programs opting for in-depth experts and others for interdisciplinary professionals or combinations of both approaches.

In this lecture, we will zoom in on how teachers can play a role in this, contributing to the design and innovation of STEM education, both at the curriculum level and through engaging learning activities. The professional development of teachers needs to be embedded in this process. We will link this vision to the need for educational research that informs professional development, curriculum design and innovative classroom practices.

INVITATION

The Executive Board of Eindhoven University of Technology cordially invites you to attend the inaugural lecture of Prof.dr. Nienieke Nieveen, Prof.dr.ir. Esther Ventura-Medina and Prof.dr. Jan van der Veen on Thursday, March 7, 2024, at 16.00.

The inaugural lecture will be preceded by a symposium dedicated to the themes of the lecture from 13.30-15.00.
Information about the symposium can be found here.
Please register for one of the workshops here.

The public lecture will be delivered in the Blauwe Zaal of the Auditorium. In case you can’t attend, the inaugural lecture will also be streamed live at https://vimeo.com/event/4021087 or can be viewed afterwards.

The title of the lecture is ‘Pathways to innovative STEM education’

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

All professors are invited to join in the cortège. If you would like to participate, please register in advance with the Office of Doctoral Presentations and Academic Ceremonies, phone +31 (0)40 247 37 42, email penp@tue.nl.

Prof.dr. Silvia Lenaerts
Rector Magnificus

After March 7, 2024, the text of the inaugural lecture will be available online at www.tue.nl/lectures.
ABOUT THE LECTURE

Societal challenges related to the Sustainable Development Goals of the United Nations require the awareness and action of all citizens. Science, Technology, Engineering, and Mathematics (STEM) education plays a pivotal role in this. Comprehensive understanding of the world around us and skills to jointly contribute to a better world are essential for all citizens to make progress on goals such as climate change, zero hunger, clean water and clean energy. Schools and universities are developing education to meet these needs, with some programs opting for in-depth experts and others for interdisciplinary professionals or combinations of both approaches.

In this lecture, we will zoom in on how teachers can play a role in this, contributing to the design and innovation of STEM education, both at the curriculum level and through engaging learning activities. The professional development of teachers needs to be embedded in this process. We will link this vision to the need for educational research that informs professional development, curriculum design and innovative classroom practices.

INVITATION

The Executive Board of Eindhoven University of Technology cordially invites you to attend the inaugural lecture of Prof.dr. Nienke Nieveen, Prof.dr.ir. Esther Ventura-Medina and Prof.dr. Jan van der Veen on Thursday, March 7, 2024, at 16.00.

The inaugural lecture will be preceded by a symposium dedicated to the themes of the lecture from 13.30-15.00. Information about the symposium can be found here. Please register for one of the workshops here.

The public lecture will be delivered in the Blauwe Zaal of the Auditorium. In case you can’t attend, the inaugural lecture will also be streamed live at https://vimeo.com/event/4021087 or can be viewed afterwards.

The title of the lecture is ‘Pathways to innovative STEM education’

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

All professors are invited to join in the cortège. If you would like to participate, please register in advance with the Office of Doctoral Presentations and Academic Ceremonies, phone +31 (0)40 247 37 42, email penp@tue.nl.

Prof.dr. Silvia Lenaerts
Rector Magnificus

After March 7, 2024, the text of the inaugural lecture will be available online at www.tue.nl/lectures.
Nienke Nieveen obtained her PhD in the curriculum domain at the University of Twente in 1997 and became an assistant professor in Twente. From 2007 to 2019, she worked at the SLO Netherlands Institute for Curriculum Development and combined this with an associate professorship at TU/e. In 2019, she returned to the University of Twente as an associate professor and program director of the teacher education programs. In addition to the full professorship here in Eindhoven, she is the program director of the TU/e teacher education programs for the STEM subjects and is a member of the National Scientific Curriculum Committee, associate editor of The Curriculum Journal and Pedagogische Studien and chair of the Curriculum division of VOR (Dutch Educational Research Association). Her research focuses on curriculum design research and school-based curriculum development.

Jan van der Veen worked as a Physics teacher after graduating from the University of Groningen. He moved onto the University of Twente, focusing on e-learning and project-based learning, while finishing his PhD in 2001. He was one of the initiators of the 4TU Centre for Engineering Education. In 2019, he received a Comenius Leadership grant focusing on the design and implementation of interdisciplinary engineering education. Jan chairs the national Beta4all steering group, supporting the domain expertise of STEM teachers. At TU/e, he chairs the Eindhoven School of Education, working with many regional school partners. His focus is on the professional development of teachers and STEM research projects in secondary and higher education. He collaborates with international education career framework initiatives and recognition and rewards projects.

Esther Ventura-Medina obtained her PhD in Chemical Engineering from the University of Manchester in 2000, after which she completed a Postgraduate Certificate in Education in Secondary Mathematics. In 2005, she joined the Department of Chemical Engineering at the University of Manchester as a lecturer, supporting students’ transition from secondary to higher education and introducing innovative approaches to teaching, such as enquiry and problem-based learning. Later, she worked as a senior lecturer at the universities of Monash and Strathclyde, introducing research-informed innovative education practice. Here at TU/e, she is a full professor at APSE-ESoE, the scientific director of the Academy for Learning and Teaching (ALT) and the lead in the 4TU Centre for Engineering Education. Her research focuses on student-centred learning approaches, including teamwork and digital learning.