

Laboratory Notebook: 50 years of Applied Physics

Name:	Through the Wormhole!	Years:	1969 -2019
Date:	Friday 8 November 2019	Location:	University of Twente
Programme:	BSc Technische Natuurkunde MSc Applied Physics	Time:	9:30 h. - 20:30 h.

Nr.	location	Title	Instructor	Time	Page	Mark
1	Hal B	Registration	Students AP	9:30		
2	Foyer Waaier	<u>Coffee, tea</u> With homemade cake of Arago's Matunda and the program staff	Students AP and staff	9:30	2	
3	Waaier 1+2	<u>Plenary sessions</u>	Diederik Jekel	10:30	2	
		- Physics with a Human Touch	Dr. Peter Wierenga		2	
		-The Early Years of Technische Natuurkunde	Prof. Leen van Wijngaarden		2	
		-Applied Physics in Twente (the present) - Superconductivity update	Prof. Alexander Brinkman		2	
4	Waaier Foyer	<u>Lunch</u> -Arago Photo exposition -Multidisciplinary teams display	Arago Student teams	12:30	3	
5	Divers	<u>Parallel sessions round 1</u> (See Page 4!!)		14:00	4,5	
6	Waaier Foyer	Coffee and tea break		15:00	4,5	
7	Multiple	<u>Parallel sessions round 1</u> (See Page 4!!)		15:30	4,5	
8	u-parkhotel	<u>Drinks ☺</u> - at the former EL/TN building/ Hogekamp		16:45	5	
9	u-parkhotel	<u>Dinner</u> - for registered guests only		17:45	5	

Coffee and Tea

While enjoying a delicious homemade piece of cake, made by the Fruit committee of Arago, Matunda, and by the programme staff, we first drink a nice cup of coffee or tea.



Plenary Sessions

The plenary sessions take place in waaiër 1 and 2 and are hosted by our well known alumnus Diederik Jekel. Diederik is a science journalist. His aim is to make science understandable and to show that it is both interesting and necessary.

"Physics with a Human Touch"
by dr. Peter Wierenga

Peter is an Applied Physics alumnus who was the CEO of Philips research. Nowadays he is an independent consultant on Innovation. And a member of the 'Domein Bestuur Exacte en Natuurwetenschappen (ENW) of NWO and member of the 'Koninklijke Hollandse Maatschappij der Wetenschappen.'



"The Early days of Technische Natuurkunde"
by prof. Leen van Wijngaarden

Emeritus professor Physics of Fluids, Leen van Wijngaarden is a professor of the first hour. He was closely involved in the establishment of Applied Physics at the THT



"Applied Physics in Twente (the present) - Superconductivity update"
by prof. Alexander Brinkman

Alexander Brinkman is chair of the Quantum Transport in Matter group and also a member of the KNAW's Jonge Academie



Lunch Break

In the Foyer of the Waaiier there will be a delicious lunch buffet, including a nice cup of soup, and of course, a 'broodje kroket.'



During Lunch

Multidisciplinary teams

Many Applied Physics students are involved in so-called multi-disciplinary teams.

During lunch several of them, including the Green Team Twente (Hydrogen cars), Solar Team (Solar car), Roboteam Twente (Robot Soccer team), Solar Boat Twente (solar boat), A3T, Aerobic Tech Team Twente, (Drone) will present themselves.

Go check them out!



Arago Photo exposition

Over the years the our Study Association Arago has organised a lot of interesting and fun events. Most of them have been documented by the Arago photographers committee 'Objectief.'

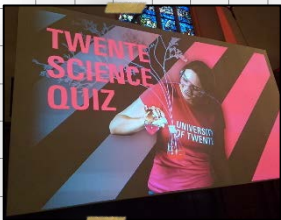
Arago has selected the best pictures and put together a nice exposition for



Parallel sessions

Science quiz

What did you learn during 50 years of Applied Physics? Besides Calculus and how a laser works (do you remember?), we all developed a profound interest in various aspects of nature.



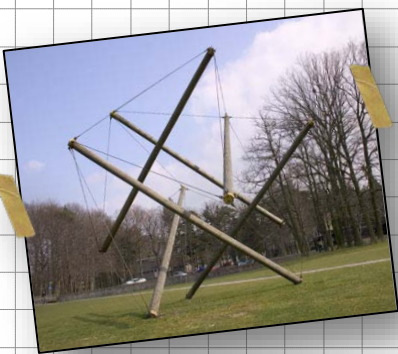
At the Science Quiz, we challenge this interest, your physical intuition, and your deductive logic with challenging questions, including live experiments to convince even the most stubborn skeptic in the

audience. Join forces with your best classmates, in teams up to six members, to win a fabulous prize and eternal (well, until the collapse of the universe) glory!

Campus tour

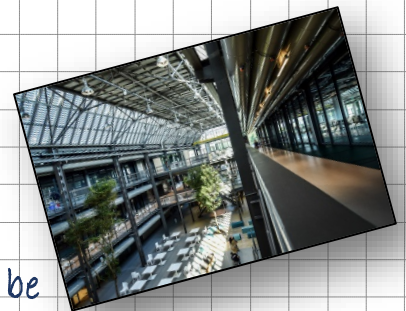
For many years the Campus of the University of Twente offers a unique combination of buildings, nature and art. But over the past 50 years much has changed on campus.

During this (outside) tour you'll get an excellent view of our magnificent campus. We will guide you along the highlights and share some anecdotes, allowing you to see and experience what has changed over the years, or what has remained the same. Together we will recall nice memories from your time as a student or (former) employee.



TechMed Centre

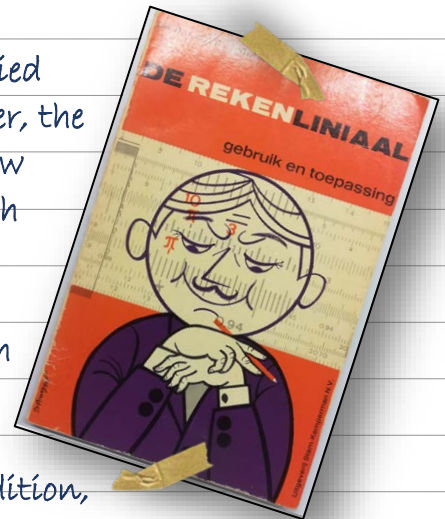
The TechMed Centre is the new calling card for all healthcare-related activities at the UT. The centre is home to our Technical Medicine, Biomedical Technology and Health Sciences students. In addition, six research groups that actively focus on clinical practice are located in the building. Centrally located is the Simulation Centre, which consists of (among others) two simulated (hybrid) operating theatres where ionising radiation can be used, two intensive care units, an imaging lab with photo acoustics equipment and two MRI scanners, and an eHealth House.



Education and Lab Exhibit

Lab courses have always been an integral part of the Applied Physics programme in Twente. And they still are! However, the experiments have changed considerably over the years. New tools, advanced equipment and a unique didactic approach characterize the physics lab courses.

To give you an impression of our excellent facilities, but also honouring the early days, we organize a tour through the student physics labs. Many experimental setups will be on display, ranging from equipment used decades ago to the experiments done today by our students. In addition, over the past years, several projects have been incorporated in the Applied Physics bachelor programme. A number of appealing results from these projects will be demonstrated.



Spin off session

University of Twente: The most entrepreneurial university!" What does that mean? Over the past decades, more than 1,000 spin-off companies have been founded, in which our UT students develop excellent ideas into valuable contributions to society. Novel-T is one of the UT partners that assists in developing entrepreneurial skills and can help in building a network of businesses and people needed to

realize such innovative ideas. Many alumni from our Applied Physics programme participate in large and small spin-off companies originating from our university. Lionix is one of the successful spin-offs which is located in the Gallery. With a few appealing demonstrations they will provide an overview on part of their activities and share some of the successes



Drinks and Dinner

After the 2nd parallel session it's time for drinks. We will do so at a very special location: The former EL-TN / Hogekamp building, now the U-Parkhotel. We will conclude the day with a lovely dinner. (Only for those who registered.) 🍷



