

Program of the Post-doc, Master- & PhD student Course Applied Vacuum Technology under auspices of the NEVAC

Location: Dept. of Applied Physics, Delft University of Technology
Lecture hall: F070
Start: Oct 28 – 30, 2019
Duration: 3 days from 09.00 till 17.00 hours
Costs: 495 €
Coordination: Dr. A. Dick van Langeveld,
Lecturers: Dick van Langeveld (AdvL), Theo Mulder (TM) & David Schijve (DS).

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Day	Onderwerp	Lecturer
Wed	Fundamental Aspects What is Vacuum Thermal Velocity of Molecules Ideal Gas Law Mean Free Path of molecules Adsorption / Desorption (Saturated -) Vapor Pressure Flow of Gases <i>Exercise Flow of Gases</i> Connections & components Cleaning and working discipline	A.D.v.L.
Thur	Total pressure gauges Membrane gauges Heat Conductivity gauges Hot- & cold cathode ionisation gauges Residual Gas analysis (Partial pressure gauges) Magnetic Deflection Spectrometer Quadrupole Mass Spectrometer Autoresonant Trap Mass Spectrometer Examples of Residual gas spectra <i>Exercise residual gas analysis</i>	T.M.
Fri	Vacuum pumps Rotary vane pump Membrane pump Scroll pump Roots pump Multistage Roots pump Turbo molecular pump Sorption pump Cryopump Ti-sublimation pump Getter-ion pump (sputter pump) Leak Testing <i>Exercise leak testing</i>	D.S.