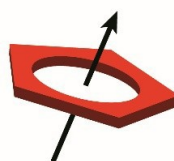


Courses for the HRSMC Class of Excellence

version June 2020



**HOLLAND
RESEARCH
SCHOOL
OF MOLECULAR
CHEMISTRY**

More Advanced Master Courses

Master Course (6 ECTS)	HRSMC member involved	Master Track	HRSMC Theme		
			1	2	3
Bio-organic Chemistry	R.V.A. Orru F. Mutti	MOL.Sc	X		
Supramolecular Chemistry and Nanomaterials	J.N.H. Reek R.M. Williams	MOL.Sc	X		
Nuclear Magnetic Resonance	C.J. Elsevier A.M. Brouwer	MOL.Sc	*	X	
Advanced Experimental Techniques	W.J. Buma	MSP	*	X	
Mass Spectrometry	S. Ingemann Jorgensen	AS	*	X	
Solid State NMR	H. de Groot	EaS	*	X	
Advanced Molecular Orbital Theory	F.M. Bickelhaupt Ü. Fonseca Guerra	MOL.Sc			X
Understanding Quantum Chemistry	L. Visscher	MOL.Sc	*		X
Relativistic Quantum Chemistry	L. Visscher	MOL.Sc			X
Scientific Computing and Programming	L. Visscher	MOL.Sc			X
Ab Initio Molecular Dynamics	E.J. Meijer	MOL.Sc	*		X
Advanced Molecular Quantum Chemistry	L. Visscher	MOL.Sc			X
Understanding Molecular Simulation	B. Ensing., E.J. Meijer, D. Dubbeldam, etc	MOL.Sc			X
Surface Science	L. Juurlink I.M.N. Groot	EaS		X	
Photosynthesis and Bioenergy	A. Pandit	EaS		X	
Theory of Spectroscopy and molecular properties	F. Buda M. Somers	EaS		X	X
Catalysis for sustainable energy	S. Grecea J.I. van der Vlugt	SfES	X		
Green Chemistry	J.C. Slootweg	SfES	X		
Project Sustainable Future	J.C. Slootweg	SfES	X		
Biomolecular Simulations	P.G. Bolhuis J. Vreede	MOL.Sc			X

Quantum Reaction Dynamics [#]	G.J. Kroes	EaS		X	X
Bioinorganic catalysis	D.G.H. Hetterscheid	EaS	X		
Mol.Sc: Molecular Sciences (UvA/VU); AS: Analytical Sciences (UvA/VU); SfES: Science for Energy and Sustainability (UvA/VU); EaS: Energy and Sustainability (UL); * = Can be very helpful for research related to catalysis/synthesis [#] This course is given alternately with the course Dynamics of Molecule- Surface Reactions.					

