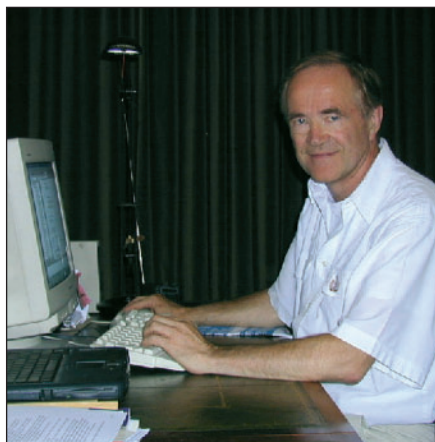

Проф. Рюн Аслид



Prof. Rune Aaslid, PhD

Професионални цели: изобретяване, развитие и пропагандиране на нови неинвазивни методи в клиничната неврофизиология и кардиологична медицина; популяризиране на научното познание за мозъчната и сърдечната хемодинамика; подобряване на диагностиката и мониторирането чрез използване на кибернетични методи; развитие и въвеждане на реални компютърни симулатори за обучение в областта на мозъчносъдовата физиология и патология.

Професионална компетентност: доктор по хемодинамика и кардиоваскуларна физиология; над 20 годишен опит в клиничните проучвания, специалист по електроника и инженерна кибернетика и програмиране.

Научни постижения: 1998-2004: Създаване на компютърна програма за обучение в областта на транскраниалната доплерова сонография и мозъчна хемодинамика.
1989-2004: Въвеждане и развитие на транскраниалния доплер и кибернетичните методи за количествена клинична оценка на динамичната мозъчна авторегулация.
1987: Въвеждане на функционалната транскраниална доплерова сонография.
1984: Въвеждане на транскраниалната доплерова сонография за оценка на мозъчния вазоспазм.
1982: Разработване и въвеждане на транскраниалния доплеров метод.
1981: Изобретяване на нов неинвазивен метод за измерване на кръвното налягане.
1976: участие в създаването на неинвазивен метод за оценка на градиента на налягането при митрални стенози.

Professional Aims: Invent, develop, introduce and propagate new noninvasive methods in clinical neurophysiology and cardiovascular medicine. Promote the understanding of cerebrovascular and cardiovascular hemodynamics. Improve diagnosis and monitoring routines by applying cybernetic methods. Develop and introduce realistic computer simulators for teaching cerebrovascular physiology and pathology.

Professional Competence: Hemodynamics and Cardiovascular Physiology (PhD), Clinical Research (20 years experience), Electronics (analog and digital) and Engineering Cybernetics (MS), Programming (System design, Assembler, ALGOL, Pascal, C++).

Achievements, Research and Education: 1998-2004: Created an interactive computer program for teaching Transcranial Doppler and Cerebral Hemodynamics.
1989-2004: Introduced and developed the use of transcranial Doppler and cybernetic methods for quantitative clinical assessment of dynamic cerebral autoregulation.
1987: Introduced functional transcranial Doppler for study and quantification of evoked flow responses and the dynamic relationship between brain function and blood flow.
1984: Introduced Cerebral Vasospasm Evaluation by Transcranial Doppler.
1982: Developed and introduced the Transcranial Doppler Method.
1981: Invented and evaluated a new noninvasive blood pressure measurement method.
1976: Cooperated on the first study describing a method for noninvasive assessment of pressure gradient in mitral valve stenosis.

	1975: Описание на нов метод за количествена оценка на ефективността на механичните сърдечни клапи.	1975: Described a new and accurate method of quantifying the efficiency of prosthetic heart valves.
Инженерни постижения:	<p>1998-2004: Създаване на първия портативен транскраниален доплеров апарат за мониториране на мозъчни емболи.</p> <p>1989-1995: Създаване на първия 2-канален транскраниален доплеров апарат, създател на софтуерите за TCD-7 and TCD-8 (DWL GmbH).</p> <p>1983: Създаване и развитие на софтуера и хардуера на първия транскраниален доплеров апарат TC2-64 EME GmbH – (сега Viasys).</p> <p>1979: Създаване и изграждане на реалистичен физичен модел на лявата камера, аорта и разклоненията ѝ за Norwegian Underwater Institute.</p>	<p>1998-2004: Developed the first transcranial Doppler instrument capable of portable ambulatory monitoring for cerebral emboli.</p> <p>1989-1995: Developed the first two-channel transcranial Doppler instrument Consulted for DWL GmbH for TCD-7 and TCD-8.</p> <p>1983: Designed and developed both the hardware as well as the software for the first dedicated transcranial Doppler instrument, the TC2-64, for EME GmbH – (now Viasys).</p> <p>1979: Designed and built a realistic full-scale physical model of the left ventricle, aorta and branches for the Norwegian Underwater Institute.</p>
Education and Degrees:	<p>1968: Sivilingenieur (MS) in Engineering Cybernetics and Electrical Engineering, The Norwegian Institute of Technology (NTH), Trondheim, Norway.</p> <p>1975: Dr Philos (PhD) in Cardiovascular Physiology, Medical Faculty, University of Oslo, Oslo, Norway.</p> <p>1988: Privatdozent (PD) in Neurosurgical Research, University of Berne, Berne, Switzerland.</p>	<p>Department of Neurosurgery, Inselspital, University of Berne, Berne, Switzerland.</p> <p>1976 – 1979: Adjunct Associate Professor of Biocybernetics, Division of Engineering Cybernetics, Department of Electrical Engineering, the Norwegian Institute of Technology (NTH), Trondheim, Norway.</p> <p>1969 – 1975: Research assistant, Institute of Surgical Research, Rikshospitalet, University of Oslo, Oslo, Norway; and Division of Engineering Cybernetics, Department of Electrical Engineering, the Norwegian Institute of Technology (NTH), Trondheim, Norway.</p>
Positions:	<p>1998 – present: President, Hemodynamics AG, Berne, Switzerland. (http://www.hemodynamic.com/)</p> <p>1989 – present: Privatdozent, (Affiliate Associate Professor), Department of Neurosurgery and Neurovascular Laboratory, University of Berne, Berne, Switzerland.</p> <p>1991 – present: Affiliate Associate Professor of Neurosurgical Research, University of Washington, Seattle, Washington, USA.</p> <p>1988 – 1991: Director of Neurosurgical Research, Inselspital, University of Berne, Berne, Switzerland.</p> <p>1985 – 1987: Director of Cardiovascular Research, Institute of Applied Physiology and Medicine (IAPM) Seattle, Washington, USA.</p> <p>1983 – 1984: Senior Research Fellow, Department of Neurosurgery, Rikshospitalet, Oslo, Norway.</p> <p>1981 – 1983: Senior Research Fellow (Wissenschaftlicher Beamter),</p>	<p>1969 – 1975: Research assistant, Institute of Surgical Research, Rikshospitalet, University of Oslo, Oslo, Norway; and Division of Engineering Cybernetics, Department of Electrical Engineering, the Norwegian Institute of Technology (NTH), Trondheim, Norway.</p> <p>1978 – present: Consultant to industry and academic institutions.</p>
		Editorial Appointments:
		<p>1990 – 92: Member of the Editorial Board of Stroke.</p> <p>1989 – present: Member of the Editorial Board of Neurosonology.</p> <p>1987 – present: Ad Hoc reviewer for Stroke (and sporadically for other journals).</p> <p>1999: Coeditor, Neurosurgical management of aneurysmal subarachnoid haemorrhage.</p> <p>1992: Coeditor, Transcranial Doppler.</p> <p>1986: Editor, first book on Transcranial Doppler Sonography.</p>
		Publications:
		<p>More than 80 publications (including books) in the field of neurosonology and cerebral hemodynamics.</p>