



COLLOQUIUM

Conform artikel 4.6.8 van het SSNS-wb.

Vakgroep: Technische Stromingsleer

In het kader van zijn/haar doctoraalopdracht zal

Krista H. Polle

een voordracht houden getiteld:

Pathogenesis of Syringomyelia

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Korte samenvatting:

Syringomyelia is a disorder that influences the functioning of the central nervous system, due to the formation of a syrinx (tubular cavity) inside the spinal cord. The syrinx elongates over time and destroys the center of the spinal cord, which is accompanied by symptoms as loss of sensitivity, muscle weakness, spasticity and headaches. Although a wide range of theories have been proposed for the pathogenesis of syringomyelia, none of these give a description that is in good correspondence with experimental results and basic fluid mechanic principles. The purpose of this study is to obtain a better understanding of the pathogenesis of syringomyelia.

This study gives firstly a careful description of the anatomical and physiological aspects of syringomyelia. It describes the cerebrospinal fluid circulation both in a normal individual and a syringomyelia patient. A survey of classical and recent theories for the pathogenesis will be presented. It is believed that syrinx formation is related to the propagation of pressure pulses through the spinal cord system. Therefore, this study comprehends a discussion of existing propagation models that apply to the spinal cord system.

Examencommissie:

Prof. dr. ir. H.W.M. Hoeijmakers (afstudeerdocent)

Dr. ir. A. Biesheuvel (mentor)

Dr. ir. R. Hagmeijer (TS)

Dr. ir. Y.H. Wijnant (TM)

Dr.ir. M.J.A.M. van Putten (MST)

De afstudeerdocent,

(handtekening)

d.d. _____