

## Editorial (E)

Dear Reader

The present issue of JUPITER from December 2010 with four articles and an obituary has become unusually extensive.

In his English article, NICK THOMAS describes in a vivid way, how so-called path curves are being constructed in the context of projective geometry. He presents different types of these path curves and shows how they naturally occur with vortices and buds of flowers or trees. Thus we're getting an insight into a field of application of projective geometry first developed by GEORGE ADAMS and LAWRENCE EDWARDS.

In his contribution, HANSJÖRG BÖGLE deals with complex numbers, their historical development, and two different geometrical interpretations of these figures: as points in the Gaussian plane and as pointed elliptic involutions in a straight line. The second interpretation is shown with many illustrations by defining the complex points of a circle, an ellipse, a parabola and a hyperbola. In the end, Hansjörg Bögle is following RUDOLF STEINER'S hint, that complex numbers behave towards positive and negative numbers as the astral body does towards the physical and ether body.

GERARD HERMANS builds a bridge in his article from geometrical optics over projective geometry to the theory of colors of Goethe and to Anthroposophy. He also deals with complex numbers, illustrates them at the sphere and brings them in connection with colors (Runge's Color sphere). The polar character of light between brightness and darkness or between warm and cold colors is reflected in this form of mathematical description very clearly.

LINUS FEITEN worked in the Sec-

tion for Mathematics and Astronomy at the Goetheanum with a Goetheanum Scholarship from March 1st till August 31st 2010 on the subject *Delineation and mergence of natural science and anthroposophical spiritual science*. In this time he dealt extensively with the statements of Rudolf Steiner on technology and summarized the fruit of his work in a comprehensive research.

PAUL EMBERSON'S publications on the theme of today's technology, especially his outlook into the time in 50 years in *Anthro-Tech News* number 10, have caused a lot of members of the General Anthroposophical Society as well as non-members to contact the Goetheanum. With the 68-page research of Linus Feiten summarizing Rudolf Steiners statements on technology from the point of view of anthroposophical spiritual science, we'd like to provide a foundation, so that everyone can form an independent opinion.

This issue is closing with an obituary for our beloved colleague HOLGER KRUG, who passed the threshold of death at the age of 42 in August 2009.

Dear reader, I wish you a fruitful reading.

Sincerely Yours,  
Oliver Conradt