

**New Media  
in  
Technology Education**

**Proceedings  
PATT-11 Conference  
March 8-13, 2001**

Mottier/De Vries (Eds.)

PATT-11 conference, 2001

Board of the PATT-Foundation  
Dr. Ilja Mottier  
Dr. Marc J. de Vries

Address:  
Dr. Marc J. de Vries  
P/A Eindhoven University of Technology  
Faculty of Technology Management  
P.O. Box 513  
5600 MB Eindhoven  
The Netherlands

**New Media  
in  
Technology Education**

**Proceedings  
PATT-11 Conference  
March 8-13, 2001**

<b>CONTENTS</b>	Page
<a href="#"><u>Preface</u></a>	ix
<b>INTRODUCTION</b>	1
<a href="#"><u>New Media in Technology Education: Introduction</u></a> <i>Ilja Mottier</i>	1
<b>CONFERENCE PAPERS</b>	3
<a href="#"><u>Cognitive styles and computer aided learning (CAL): exploring designer and user perspectives</u></a> <i>Stephanie Atkinson</i>	3
<a href="#"><u>CPD for ICT in D&amp;T: using LSP!</u></a> <i>Frank Banks</i>	15
<a href="#"><u>New media in technology education. Using a web site to support a community of practice</u></a> <i>David Barlex</i>	25
<a href="#"><u>Young Foresight</u></a> <i>David Barlex</i>	31
<a href="#"><u>University teacher education for courses "Information Technology" as part of teacher education for Gymnasia secondary level with focus on the computer based module "Optical Data Transmission"</u></a> <i>Denis Bhattacharya and Jürgen Wehling</i>	35
<a href="#"><u>Feature-based graphic modelling in the classroom (the ProDESKTOP revolution is coming - a progress report!)</u></a> <i>Robert Booth</i>	41
<a href="#"><u>Teaching information research on Internet in technology education, what learning to aim at?</u></a> <i>Pascale Brandt-Pomares</i>	47
<a href="#"><u>Twelve years of technology education in France, England and the Netherlands: how do pupils perceive the subject?</u></a> <i>Isabelle Correard</i>	51
<a href="#"><u>"Systems in action": a multimedia environment for learning technology systems</u></a> <i>Osnat Dagan and Dov Kipperman</i>	59
<a href="#"><u>New media and standards for technological literacy</u></a> <i>William Dugger</i>	67

<a href="#"><u>Technological education in the Chilean curriculum reform</u></a> <i>Francisca Elton</i>	75
<a href="#"><u>Macro strategies or micro strategies developed to implement new media in technology education: the project ARTEMMIS</u></a> <i>Jacques Ginestié</i>	95
<a href="#"><u>The effects of learning WWW and the computer attitudes on technology education programs</u></a> <i>Chia-Sen Jimmy Huang</i>	101
<a href="#"><u>Explorations into 'bottom-up' strategies for the teaching of Computer Aided Design</u></a> <i>Tony Lawler</i>	111
<a href="#"><u>Developing problem solving skills through web-based instructional modules</u></a> <i>Da-Wei Lee, Chung-Hsiung Fang and Ted Shir-Tau Tsai</i>	119
<a href="#"><u>System dynamics learning through separation of a control unit</u></a> <i>Tzur Levin, Ilya Levin and Vadim Talis</i>	127
<a href="#"><u>Standards: breeding confusion or confidence?</u></a> <i>Gene Martin</i>	135
<a href="#"><u>What makes an educational web site effective?</u></a> <i>John Martin and Martin Coleman</i>	145
<a href="#"><u>Integrating e-mail use in Design &amp; Technology lessons</u></a> <i>Hans van der Meij, Marja van Graft and Kerst Boersma</i>	153
<a href="#"><u>Factors that favor the development of technology education</u></a> <i>Fernando Mena Miranda</i>	169
<a href="#"><u>Simulation programs in the progress of training teachers of technology education (on the example of environmental protection issues)</u></a> <i>Andrzej Michalski and Elzbieta Podoska-Filipowicz</i>	177
<a href="#"><u>The enhancement of technology education classroom practice in New Zealand</u></a> <i>Judy Moreland and Alister Jones</i>	181
<a href="#"><u>New media: development of logic thought pertinent to technology and technological concepts</u></a> <i>Ilija Natali</i>	193
<a href="#"><u>Impact of new media for the increase of the level of technology education</u></a> <i>Hana Novakova</i>	201

<a href="#"><u>Technology education enhanced by educational technology (new &amp; old)</u></a>	211
<i>Calvijn Potgieter</i>	
<a href="#"><u>The use of information communication technology (ICT) by secondary design and technology (D&amp;T) trainee teachers in the UK</u></a>	219
<i>Marion Rutland</i>	
<a href="#"><u>ICT-tests in science and technology</u></a>	227
<i>Johan Schimmel</i>	
<a href="#"><u>Preparation of technology education teachers for computer-aided teaching</u></a>	
<i>Ryszard Szeremeta and Zbigniew Dziamski</i>	231
<a href="#"><u>Concrete-abstractions stage in Kindergarten children's perception and construction of robotic control rules</u></a>	
<i>Sharona Tal-Levy, David Mioduser and Vadim Talis</i>	237
<a href="#"><u>University teacher education for courses "Information Technology" as part of teacher education for Gymnasia secondary level</u></a>	
<i>Jürgen Wehling and Denis Bhattacharya</i>	245
<b>SUMMARY</b>	
<a href="#"><u>New media in technology education: threats and opportunities. A conference summary</u></a>	
<i>Marc de Vries</i>	253
<a href="#"><u>LIST OF PARTICIPANTS</u></a>	257