

CURRICULUM VITAE

Bernhard Kutzler

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EDUCATION:

Jan 1989 Dr.techn. (Ph.D.) in mathematics from Univ of Linz, Austria (*advisor: B Buchberger*)
Nov 1984 Dipl.-Ing. (M.S. with thesis) in mathematics from Univ of Linz, Austria (*advisor: B Buchberger*)
Advanced trainings in *Nutrition, Herbalism, Holistic Healing, Ayurveda, and Psychological Hand Analysis.*

RESEARCH AREAS:

2010-*today* Human Consciousness and Human Conditioning
1990-2009 Integration of Technology into Mathematics Teaching and Learning
1985-1990 Automated Geometry Theorem Proving

PROFESSIONAL HISTORY:

2010-*today* Independent Researcher and Writer
1983-2009 Lecturer, Univ of Linz, Austria
2006-2009 Consultant, Texas Instruments, Dallas, TX, USA
1993-2009 Founding Vice President, Austrian Center for Didactics of Computer Algebra, Austria
2002-2009 Licensed Nutritionist
1995-2008 Founding Managing Director, bk teachware, Hagenberg, Austria
1990-2006 Founding Managing Director, Soft Warehouse Europe, Hagenberg, Austria
1995-2002 Consultant, Texas Instruments Europe, Freising, Germany
1989-1990 Assistant Professor, Research Institute for Symbolic Computation, Univ of Linz, Austria
1985-1988 Research Assistant, Research Institute for Symbolic Computation, Univ of Linz, Austria
1982-1984 Teaching Assistant, Institute of Mathematics, Univ of Linz, Austria
1981 Software Engineer, VOEST Alpine AG, Linz, Austria + Delta Steel Company, Warri, Nigeria
Teaching activities in *Mathematics, Mathematics Education, Computer Science, Statistics, Nutrition, Learning Techniques, and Spiritual Philosophy* for national and international educational and commercial institutions.

RESEARCH VISITS:

Sep 1997 John Moores University, Liverpool, UK
Aug 1996 Soft Warehouse Inc, Honolulu, HI, USA
May 1996 Univ of Petropolis, Brazil (Scholarship of Brazilian Government)
Apr 1987 Computer Algebra Group, IBM Research Center, Yorktown Heights, NY, USA
Jul 1986 Computer Science Dept, Univ of Delaware, Newark, DE, USA
Feb 1986 Computer Algebra Group, IBM Research Center, Yorktown Heights, NY, USA

PUBLICATIONS:

BOOKS:

B Kutzler, F Lichtenberger: *Bibliography on Abstract Data Types.*
Informatik Fachbericht, vol 68, Springer, Berlin, 1983.
B Kutzler, B Wall, F Winkler: *Mathematische Expertensysteme (Mathematical Expert Systems).*
Expert Verlag, Ehningen, 1992.
B Kutzler: *Mathematics on the PC – Introduction to Derive.*
English edition: Soft Warehouse Europe, Hagenberg, Austria, 1994.
German edition: Soft Warehouse Europe, Hagenberg, Austria, 1994.

- French edition: Soft Warehouse Europe, Hagenberg, Austria, 1994.
- Italian edition: Media Direct, Bassano del Grappa, Italy, 1995.
- Russian edition: SCAN, Moscow, Russia, 1996.
- Slovakian edition: ASCO Educational Technologies, Bratislava, Slovakia, 1996.
- Spanish edition: Derisoft, Valencia, Spain, 1997.
- B Kutzler: *Improving Mathematics Teaching with Derive*.
- English edition: Chartwell-Bratt, Bromley, UK, 1996.
- German edition: Addison-Wesely, Bonn, Germany, 1995.
- B Kutzler: *Introduction to the TI-92*.
- English edition: bk teachware, Hagenberg, Austria, 1997.
- German edition: Addison-Wesley, Bonn, Germany, 1996.
- B Kutzler: *Introduction to Derive for Windows*.
- English edition: Soft Warehouse Inc, Honolulu, HI, USA, 1996.
- German edition: Soft Warehouse Europe, Hagenberg, Austria, 1997.
- Italian edition: Media Direct, Bassano del Grappa, Italy, 1997.
- Spanish edition: Derisoft, Valencia, Spain, 1998.
- B Kutzler, D R Stoutemyer: *Great TI-92 Programs*.
- English edition: bk teachware, Hagenberg, Austria, 1997.
- German edition: bk teachware, Hagenberg, Austria, 1997.
- Japanese edition: SEG, Tokyo, Japan, 1998.
- B Kutzler: *Solving Linear Equations with the TI-92*.
- English edition: bk teachware, Hagenberg, Austria, 1997.
- German edition: bk teachware, Hagenberg, Austria, 1997.
- B Kutzler: *Solving Systems of Linear Equations with the TI-92*.
- English edition: bk teachware, Hagenberg, Austria, 1998.
- German edition: bk teachware, Hagenberg, Austria, 1998.
- B Kutzler: *Solving Linear Equations with Derive*.
- English edition: bk teachware, Hagenberg, Austria, 1998.
- German edition: bk teachware, Hagenberg, Austria, 1998.
- Italian edition: Media Direct, Bassano del Grappa, Italy, 1999 and 2004.
- B Kutzler: *Solving Systems of Linear Equations with Derive*.
- English edition: bk teachware, Hagenberg, Austria, 1998.
- German edition: bk teachware, Hagenberg, Austria, 1998.
- Italian edition: Media Direct, Bassano del Grappa, Italy, 1999 and 2004.
- B Kutzler: *Introduction to the TI-89*.
- English edition: bk teachware, Hagenberg, Austria, 1998.
- German edition: bk teachware, Hagenberg, Austria, 1998.
- Swedish edition: YD Science&Arts, Onsala, Sweden, 1999.
- Italian edition: Media Direct, Bassano del Grappa, Italy, 2000.
- V Kokol-Voljc, B Kutzler: *Einführung in Cabri Geometre II (Introduction to Cabri Geometre II)*.
bk teachware, Hagenberg, 1999.
- B Kutzler, V Kokol-Voljc: *Introduction to Derive 5*.
- English edition: Texas Instruments, Dallas, TX, USA, 2000.
- German edition: Soft Warehouse Europe, Hagenberg, Austria, 2000.
- Italian edition: Media Direct, Bassano del Grappa, Italy, 2000.
- Spanish edition: Derisoft, Valencia, Spain, 2000.
- Dutch edition: Rhombus, Kapellen, Belgium, 2001.
- French edition: Calibration, Viroflay, France, 2001.
- Portuguese edition: Softechno, Porto Alegre, Brazil, 2001.
- Hungarian edition: Calculus, Budapest, Hungary, 2002.
- Latvian edition: Datakom, Riga, Latvia, 2002.
- V Kokol-Voljc, B Kutzler: *Prüfungsfragen für das Unterrichten mit Derive und dem TI-89/92/92+ - Band 2 (Exam Questions for Teaching with Derive and the TI-89/92/92+ - Vol 2)*.
bk teachware, Hagenberg, 2001.

- A Dreiseidler, B Grabinger, V Kokol-Voljc, B Kutzler, G Noll, W Pröpper, G Scheu, H Scheuermann, J Weiten-
dorf: *Einführung in den Voyage 200 anhand von Beispielen aus den Sekundarstufen I und II (Introduction
to the Voyage 200 with Examples from Lower and Upper Secondary Teaching)*.
bk teachware, Hagenberg, 2002.
- B Kutzler, V Kokol-Voljc: *Introduction to Derive 6 + Derive 6 Reference Guide*.
English edition: Texas Instruments, Dallas, TX, USA, 2003.
German edition: Soft Warehouse Europe, Austria, 2003.
Italian edition: Media Direct, Bassano del Grappa, Italy, 2003.
Slovakian edition: NEPA, Bratislava, Slovakia, 2003.
Czech edition: European, Budejovice, Czech Republic, 2004.
French edition: Calibration, Viroflay, France, 2004.
Hungarian edition: Calculus, Budapest, Hungary, 2004.
Spanish edition: Derisoft, Valencia, Spain, 2004.
Dutch edition: Rhombus, Kapellen, Belgium, 2005.
Polish edition: Gambit, Krakow, Poland, 2005.
- B Kutzler, V Kokol-Voljc: *InterconnectIvity – Derive & TI-89/Voyage 200 für den Mathematikunterricht
(InterconnectIvity – Derive & TI-89/Voyage200 for Teaching Mathematics)*.
German edition: bk teachware, Hagenberg, Austria, 2003.
Italian edition: Media Direct, Bassano del Grappa, Italy, 2003.
- B Kutzler: *Mathematikerwitze & Mathematikwitze (Jokes about Mathematicians and Mathematical Jokes)*.
bk teachware, Hagenberg, Austria, 2005.
- V Kokol-Voljc, B Kutzler: *Einführung in das “digitale Auge” ProScope – Bedienung und Unterrichtseinsatz
(Introduction to the “Digital Eye” ProScope – Handling and Educational Use)*.
bk teachware, Hagenberg, Austria, 2005.
- B Kutzler: *Zitate von Mathematikern und Zitate über Mathematik (Quotes from Mathematicians and Quotes
about Mathematics)*.
bk teachware, Hagenberg, Austria, 2005.
- B Kutzler, V Kokol-Voljc: *Tipps & Tricks zu Derive (Tips & Tricks for Derive)*.
bk teachware, Hagenberg, Austria, 2006.
- B Kutzler: *Was kluge Leute essen ... (What Smart People Eat ...)*.
bk teachware, Hagenberg, Austria, 2006.
- B Kutzler: *Introduction to TI-Nspire CAS (Software)*.
English edition: Texas Instruments, Dallas, TX, USA, 2007.
German edition: Texas Instruments Europe, Freising, Germany, 2007.
- B Kutzler: *Introduction to TI-Nspire CAS (Handheld)*.
English edition: Texas Instruments, Dallas, TX, USA, 2007.
German edition: Texas Instruments Europe, Freising, Germany, 2007.
- B Kutzler: *Technology and the Yin&Yang of Teaching and Learning Mathematics*.
English edition: bk teachware, Hagenberg, Austria, 2008.
German edition: bk teachware, Hagenberg, Austria, 2008.
- B Kutzler: *Die Sprache der Zahlen (The Language of Numbers)*.
bk teachware, Hagenberg, Austria, 2006.
- B Kutzler: *Das Zahlenlexikon (The Number Encyclopedia)*.
bk teachware, Hagenberg, Austria, 2007.
- B Kutzler: *Mit dem Kosmos tanzen ... (Dancing with the Cosmos)*.
bk teachware, Hagenberg, Austria, 2007.
- B Kutzler: *Die Essenz der Quantenheilung (The Essence of Quantum Healing)*.
Leonding, Austria, 2010.
- B Kutzler: *Handlesen (Hand Analysis)*.
Leonding, Austria, 2012.
- B Kutzler: *Die Macht des Wortes (The Power of Words)*.
Leonding, Austria, 2013.
- B Kutzler: *Humor trifft Spiritualität (Humor Meets Spirituality)*.
Leonding, Austria, 2013.

- B Kutzler: *Humor trifft Wissenschaft (Humor Meets Science)*.
Leonding, Austria, 2013.
- B Kutzler (text), A Wohland (pictures):
Frei-Sein 1 – Anleitung zur Selbsterforschung (Being Free 1 – Self Exploration Guide).
Leonding, Austria, 2013.
- B Kutzler (text), A Wohland (pictures):
Frei-Sein 2 – Anleitung zur Selbsterforschung (Being Free 2 – Self Exploration Guide).
Leonding, Austria, 2014.
- B Kutzler (text), A Wohland (pictures):
Frei-Sein 3 – Anleitung zur Selbsterforschung (Being Free 3 – Self Exploration Guide).
Leonding, Austria, 2014.
- B Kutzler (text), A Wohland (pictures):
Frei-Sein 4 – Anleitung zur Selbsterforschung (Being Free 4 – Self Exploration Guide).
Leonding, Austria, 2014.

EDITED BOOKS:

- H Heugl, B Kutzler: *Derive in Education – Opportunities and Strategies. Proc 2nd Krems Conf on Mathematics Education*.
Chartwell-Bratt, Bromley, UK, 1994.
- J Berry, M Kronfellner, B Kutzler, J Monaghan: *Computer Algebra in Mathematics Education – State of the Art*.
Chartwell-Bratt, Bromley, UK, 1996.
- V Kokol-Voljc, B Kutzler, M Lokar, J Palcic: *Exam Questions and Basic Skills in Technology-Supported Mathematics Teaching. Proc ACDCA Conf Portoroz*.
bk teachware, Hagenberg, Austria, 2000.

EDITED JOURNAL ISSUES:

- F Demana, B Kutzler, B Waits: *The Int'l Journal of Computer Algebra in Mathematics Education Vol 4 No 1*.
Research Information, Hemel Hempstead, UK, 1997, 115 pages.
- T Jebelean, B Kutzler, P Schofield: *The Int'l Journal of Computer Algebra in Mathematics Education Vol 6 No 1*.
Research Information, Hemel Hempstead, UK, 1999, 84 pages.

ARTICLES IN BOOKS:

- B Buchberger, B Kutzler: *Computer Algebra für den Ingenieur (Computer Algebra for the Engineer)*.
"Rechnerorientierte Verfahren", vol 4, Teubner, Stuttgart, Germany, 1986.
- B Buchberger, G Collins, B Kutzler: *Algebraic Methods for Geometric Reasoning*.
"Annual Reviews in Computer Science", vol 3, Annual Reviews Inc, Palo Alto, CA, USA, 2988, pp 85-119.
- B Kutzler: *Deciding a Class of Euclidean Geometry Theorems*.
"Computer Aided Proofs in Analysis", vol 28 of the IMA Volumes in Mathematics and its Applications,
edited by K R Meyer, D S Schmidt, Springer, New York, NY, USA, 1990, pp 175-189.
Also: "Revue d'Intelligence Artificielle", vol 4, no 3/1990, edited by R Caferra, Hermès, Paris, pp 81-98.
- B Kutzler: *Computers and Calculators as Pedagogical Tools for Teaching Mathematics*.
"Computer Algebra Systems in Secondary School Mathematics Education", NCTM, 2003, pp 53-71.
Also: The Int'l Journal for Computer Algebra in Mathematics Education, vol 7 (2000), no 1, pp 5-24.
Also: "Hand-Held Technology in Mathematics and Science Education: A Collection of Papers", edited by E D Laughbaum, Teachers Teaching with Technology Short Course Program, The Ohio State University, pp 98-109.
Also: "Proc of the 2nd Mediterranean Conf on Mathematics Education", edited by A Gagatsis, G Makrides, 2000, Nicosia, Cyprus, pp 142-160.
Also: "Proc of the Primera Conf Iberoamericana de Matemática Computacional", 2001, Bogota, Colombia, pp 67-80.
Also: Sociedad 'Puig Adam' de Profesores de Matemáticas Boletín no 60, 2002, pp 15-37.
Also: "Convegno Internazionale Didattica in Ambiente Scientifico con le Buove Tecnologie", edited by C Costabile, A Serpe, 2003, pp 168-184.
Also: "Univ of South Bohemia Ceske Budejovice – Dept of Math Report Series", vol 11, 2003, pp 89-104.

German edition: "Profil (Zeitschrift des Deutschen Philologenverbandes)", 4/99 (part 1) + 5/99 (part 2).

Dutch edition: "Wiskunde & Onderwijs (Driemaandelijks tijdschrift van de Vlaamse Vereniging von Wiskundeleraars)", 26ste jaargang 2000, no 101, pp 61-80.

Polish edition: "Matematyka", no 3, 2000, pp 149-161.

Slovenian edition: "Matematika v soli", no 8 (2000-2001), pp 10-25 (part 1) + pp 133-143 (part 2).

French edition: "Les Mathématiques de l'Enseignement à la Recherche et aux Application" (La Nouvelle Revue des Mathématiques de l'Enseignement Supérieur), no 3, 2001/02, pp 355-372.

B Kutzler: *Derive and the TI-92*.

"Computer Algebra Handbook". edited by J Grabmeier, E Kaltofen, V Weispfennig, Springer, Berlin, Germany, pp 271-282.

ARTICLES IN JOURNALS:

B Kutzler, S Stifter: *On the Application of Buchberger's Algorithm to Automated Geometry Theorem Proving*.
Journal of Symbolic Computation, vol 2, Academic Press, London, pp 389-397.

B Kutzler: *Derive – The Future of Teaching Mathematics*.

The Int'l Derive Journal, vol 1, no 1, Paramount Publishing, Hemel Hempstead, 1994, pp 37-48.

Also: La matematica e la sua didattica, 1995, pp 551-563.

B Kutzler: *With the TI-92 Towards Computer Age Mathematics Teaching*.

The Int'l Journal for Computer Algebra in Mathematics Education, Research Information, Hemel Hempstead, vol 4 (1997), no 1, pp 7-32.

B Kutzler: *Two-Tier Exams as a Way to Let Technology In*.

The Int'l Journal for Computer Algebra in Mathematics Education. Vol 8 (2001), no 1, pp 85-88.

Also: "Exam Questions and Basic Skills in Technology-Supported Mathematics Teaching. Proc ACDC Conf Portoroz", edited by V Kokol-Voljc et al, 2000, pp 105-108.

Dutch edition: "Wiskunde Onderwijs", vol 28, no 111, 2002, pp 207-210.

W Herget, H Heugl, B Kutzler, E Lehmann: *Indispensable Manual Calculation Skills in a CAS Environment*.

Ohio Journal of School Mathematics, autumn 2000, no 42, pp 13-20.

Also: Micromath, vol 16 (2000), no 3, pp 8-12.

Also: Mathematics in School, vol 30 (2001), no 2, pp 2-6.

Also: "Exam Questions and Basic Skills in Technology-Supported Mathematics Teaching. Proc ACDC Conf Portoroz", edited by V Kokol-Voljc et al, 2000, pp 13-26.

Also: "Proc of the Third Southern Hemisphere Symp on Undergraduate Mathematics Teaching", South Africa, edited by J Engelbrecht, 2001, pp 56-63.

German edition: "Computeralgebra-Rundbrief", Fachgruppe Computeralgebra of the GI-DMV-GAMM, no 27, Oct 2000, pp 25-31

Also: MNU Journal, vol 54 (2001), no 8, pp 458-464.

Italian edition: "L'Insegnamento della Matematica e delle Scienze Integrale", vol 24B, no 2, Apr 2001, pp 111-126.

French edition: "RMS – Les Mathématiques de l'Enseignement à la Recherche et aux Applications", 2001/2002, no 4, pp 341-352.

Swedish edition: "elementa", vol 84, no 3, 2001, pp 116-124.

Dutch edition: "Wiskunde Onderwijs", vol 28, no 112, 2002, pp 307-317.

B Kutzler: *Numerics Versus Symbolics*.

Sociedad 'Puig Adam' de Profesores de Matemáticas Boletín no 77, Oct 2007, pp 14-33.

Also: "Univ of South Bohemia Ceske Budejovice – Dept of Mathematics Report Series", vol 13, 2005, pp 91-104.

ARTICLES IN PROCEEDINGS:

B Kutzler, S Stifter: *Automated Geometry Theorem Proving Using Buchberger's Algorithm*.

Proc Int'l Symp on Symbolic and Algebraic Computation (SYMSAC'86), Waterloo, Canada, 1986, edited by B W Char, ACM Publications no. 505860, pp 209-214.

B Kutzler, K Kusche, H Mayr: *Implementation of a Geometry Theorem Proving Package in SCRATCHPAD II*.

Proc Int'l Symp on Symbolic and Algebraic Computation (EUROCAL'87), Leipzig, GDR, 1987, edited by J Davenport, Lecture Notes in Computer Science vol 378, Springer, Berlin, pp 246-257.

- K Aspetsberger, B Kutzler: *Symbolic Computation – A New Challenge for Education*.
Proc IFIP TC 3 Europ Conf Computers in Education (ECCE'88), Lausanne, Switzerland, 1988, edited by F Lovis, E D Tagg, North Holland, pp 331-336.
- B Kutzler, S Stifter: *Using Symbolic Methods in Robotics: Inverse Kinematics and Collision Problems*.
Proc IMACS Symp System Modelling and Simulation, Cetraro, Italy, 1988, edited by S Tzafestas, A Eisinger, L Carotenuto, North Holland, pp 229-234.
- K Aspetsberger, B Kutzler: *Using a Computer Algebra System at an Austrian High School*.
Proc 6th Int'l Conf Technology and Education, Orlando, USA, 1989, edited by J H Collins, N Estes, W D Cattis, D Walker, CEP Consultants Ltd, vol 2, pp 476-479.
- B Kutzler: *Careful Algebraic Translations of Geometry Theorems*.
Proc Int'l Symp Symbolic and Algebraic Computation (ISSAC'89), Portland, Oregon, USA, 1989, ACM publication, pp 254-263.
- B Kutzler: *Deriv(e)-ons vers le Futur de l'enseignement des Mathématiques*.
Proc Univ d'été, Les outils de calcul formel dans l'enseignement des mathématiques, Caen, France, 1994, Ministère de l'Education Nationale, pp 67-77.
- B Kutzler: *Wie kann man Derive in den Mathematikunterricht einbauen? (How to Implement Derive into Mathematics Education?)*
Proc 13. Arbeitstagung des Arbeitskreises 'Mathematikunterricht und Informatik' der Gesellschaft für Didaktik der Mathematik, Wolfenbüttel, Germany, 1995, edited by H Hischer, M Weiss, pp 95-99.
Also: Proc 25. Kolloquium Mathematik-Didaktik der Univ Bayreuth, pp 42-45.
- B Kutzler: *Der Symbolrechner TI-92 (The Symbolic Calculator TI-92)*
Proc 13. Arbeitstagung des Arbeitskreises 'Mathematikunterricht und Informatik' der Gesellschaft für Didaktik der Mathematik, Wolfenbüttel, Germany, 1995, edited by H Hischer, M Weiss, pp 146-149.
- B Kutzler: *What Math Should We Teach When We Teach Math With CAS?*
Proc 4^o Convegno Nazionale de ADT – Associazione per la Didattica con le Tecnologie", 2002, Monopoli, Italy, pp 134-140.
- B Kutzler: *The Next Generation: PeCAS (= Pedagogical CAS)*.
Proc of the 3rd Mediterranean Conf on Mathematical Education, 2003, Athens, edited by A Gagatsis, S Papastavridis, Hellenic Mathematical Society, pp 331-334.
German edition: Proc Medien verbreiten Mathematik, 2001, edited by W Herget, R Sommer, H-G Weigand, T Weth, Franzbecker, pp 173-175.
- B Kutzler: *The New Features in Derive 6*.
Proc Speciale Convegno L'insegnamento dell'Algebra (e non solo) nell'era dei Computer, edited by F Noè, D Tasso, CABRIRASAE, no 26, pp 29-31.

INVITED POSITION PAPERS:

- B Kutzler: *The Impact of Derive on Teaching and Assessing Mathematics*.
"Mathematics for 16 to 19 year olds". The School Curriculum and Assessment Authority (SCAA), Ministry of Education, London, UK.

LECTURES:

INVITED OPENING KEYNOTE LECTURES:

- Teaching Mathematics in the Computer Age*.
The Mathematical Association (MA) Annual Conf, Trinity and All Saints, Leeds, UK, 10 Apr 1996.
- Teaching Mathematics in the Computer Age*.
T³ Summer Institute, Ohio University, Columbus, OH, USA, 19 Jul 1998.
- Mathematics Education Meets Computer Algebra*.
ATCM – Asian Technology Conf in Mathematics, Tsukuba, Japan, 24 Aug 1998.
- Algebraic Calculators as Pedagogical Tools for Teaching Mathematics*.
Technology Working Group Meeting, International Baccalaureate Organisation, Cardiff, UK, 16 Oct 2000.
- Indispensable Manual Skills in a CAS Environment*.
T³ Conf, Kiel, Germany, 2 Dec 2000.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.

ISMTF Technology in Mathematics Education Conf, Vienna, Austria, 19 Jan 2001.

Mathematics Education for the 21st Century – Recommendations from the Austrian Experience.

Mathematics Education Conf, Sharjah, United Arab Emirates, 4 Apr 2001.

Wie viel Termumformung braucht der Mensch?

1. CAS-Tagung des Landesinstituts für Schule und Ausbildung Mecklenburg-Vorpommern, Schwerin, Germany, 23 Jul 2001.

The Role of Technology in Mathematics Education.

IAMC'02 (Internet Accessible Mathematical Computation), Lille, France, 7 Jul 2002.

What Math Should We Teach When We Teach Math With CAS?

T³ Italy Annual Conf, Bari, Italy, 11 Oct 2002.

CAS for Teaching Students.

USACAS'2003, Glennbrook, IL, USA, 21 Jul 2003.

CAS for Teaching Students.

Conf on Use of Technology in Mathematics Education, Cesce Budejovice, Czech Republic, 7 Nov 2003.

Numerics Versus Symbolics.

Conf on Use of Technology in Mathematics Education, Cesce Budejovice, Czech Republic, 10 Nov 2005.

Technology and the Yin&Yang of Teaching and Learning Mathematics.

TICEMUS-2009, Malaga, Spain, 20 May 2009.

INVITED (KEYNOTE) LECTURES AT CONFERENCES:

Teaching Mathematics with Derive.

The First Int'l Derive Conference, Plymouth, UK, 12 Jul 1994.

Teaching Mathematics with Derive.

Summer University of French Ministry of Education, Caen, France, 31 Aug 1994.

Teaching Mathematics in the Computer Age.

MNU Curriculum Conf, Bad Honnef, Germany, 14 Nov 1995.

Teaching Mathematics in the Computer Ager.

Enc de la Asoc de Prof Usuarios de Derive de Espana, Valencia, Spain, 19 Sep 1996.

Teaching Mathematics with Derive and the TI-92.

Conf on Using Computer Algebra Systems in Mathematics Education, Univ Essen, Germany, 23 Sep 1996.

Science, Mathematics, and Technology in Our Society.

OECD Conf on Teaching Science, Mathematics, and Technology, Vienna, Austria, 8 Oct 1996.

Fun in Learning Mathematics.

4th ACDCA Symp on Mathematics Education, Sarö, Sweden, 9 Aug 1997.

Teaching Mathematics in the Information Age.

Pre-session of ICTCM'97, Chicago, IL, USA, 6 Nov 1997.

The Role of Computers in the Teaching of Mathematics.

Conf Mathematics and Technology, Al-Ain, United Arab Emirates, 18 Apr 1998.

The Role of Computers in the Teaching of Mathematics.

LUMA'98, Helsinki, Finland, 24 Apr 1998.

Mathematics = Mind Exercise + Translating + Problem Solving.

MAOL (Annual Conf of Finish Mathematics Teacher Association), Lahti, Finland, 3 Oct 1998.

Technology in Mathematics Teaching.

Conf Univ of Alexandria, Egypt, 31 Jan 1999.

Mathematics Education Meets Computer Algebra.

Annual Conf of Polish Mathematics Teachers, Grudziadz, Poland, 4 Feb 1999.

The Scaffolding Method.

Conf Matematyka i fizyka z kalkulatorem graficznym, Krakow, Poland, 28 Jun 1999.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.

Conf Matematyka i fizyka z kalkulatorem graficznym, Krakow, Poland, 30 Jun 1999.

Computer Algebra Meets Mathematics Education.

Twaalfde Congres Vlaamse Vereniging Wiskunde Leraren, Oostende, Belgium, 2 Jul 1999.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.
 AAMT (Australian Association of Mathematics Teachers) Virtual Conf 1999, 20 Aug – 24 Sep 1999.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.
 XV Conf on Information Technology for Schools, Katowice, Poland, 26 Sep 1999.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.
 2nd Mediterranean Conf in Mathematics Education, Nicosia, Cyprus, 7 Jan 2000.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.
 Bilisim Teknolojisi: Matematik Öğretiminde Öğretmen Eğitimi, Ankara, Turkey, 4 May 2000.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.
 3rd T³ Japan Annual Conf, Tokyo, Japan, 7 Aug 2000.

Algebraic Calculators as Pedagogical Tools for Teaching Mathematics.
 MAOL (Annual Conf of Finish Mathematics Teachers Association), Seinäjoki, Finland, 11 Nov 2000.

Indispensable Manual Calculation Skills in a CAS Environment.
 ATCM – Asian Technology Conf in Mathematics, Chiang Mai, Thailand, 18 Dec 2000.

Computers and Calculators as Pedagogical Tools for Teaching Mathematics.
 Mathematics Education Conf, Sharjah, United Arab Emirates, 5 Apr 2001.

Derive, TI-89/92, and other CAS as Pedagogical Tools for Teaching Mathematics.
 Primera Conf Iberoamericana de Matemáticas Computacional, Bogota, Colombia, 26 Jul 2001.

Indispensable Manual Calculation Skills in a CAS-Teaching Environment.
 1st Bavarian T³ Conf, Würzburg, Germany, 10 Oct 2001.

Computers in Teaching.
 Bildungspolitische Tagung der CLOe, Weyregg, Austria, 14 Mar 2002.

Computers in Teaching Mathematics.
 Conf Further Teacher Education in Mathematics, Zadov, Czech Republic, 30 Sep 2002.

The Next Generation: PeCAS (Pedagogical CAS).
 ATCM – Asian Technology Conf in Mathematics, Melaka, Malaysia, 18 Dec 2002.

The Role of Derive in Teaching Mathematics.
 First Hungarian Derive Conf, Budapest Technical University, Hungary, 17 Apr 2003.

CAS as Pedagogical Tools for Teaching and Learning Mathematics.
 Convegno Int'l Didattica in Ambito Scientifico con del Nuove Tecnologie, Caposuveto, Italy, 10 May 2003.

CAS for Teaching Students.
 ECIS Conf, Hamburg, Germany, 21 Nov 2003.

CAS for Teaching Students.
 ATCM – Asian Technology Conf in Mathematics, Chung Hua, Taiwan, 16 Dec 2003.

PeCAS for Teaching Students.
 Matematikbiennalen, Malmö, Sweden, 23 Jan 2004.

The New Features in Derive6.
 Speciale Convegno: L'insegnamento dell'Algebra (e non solo) nell'era dei Computer, Bologna, Italy, 15 Mar 2004.

Derive 6 – A Computer Program for Teaching and Learning Mathematics.
 UAE-Math-Day-2004, Sharjah, United Arab Emirates, 31 Mar 2004.

Computer Algebra Systems for Teaching Students.
 UAE-Math-Day-2004, Sharjah, United Arab Emirates, 1 Apr 2004.

CAS for Teaching Students and Learning Mathematics.
 USACAS'2004, Glenbrook, IL, USA, 19 Jun 2004.

Derive 6 – A Computer Program for Teaching and Learning Mathematics.
 NCGC (National Conf on Graphics Calculators), Penang, Malaysia, 4 Oct 2004.

Derive 6 – A Computer Program for Teaching and Learning Mathematics.
 Exposcuola 2004, Salerno, Italy, 19 Nov 2004.

CAS for Teaching Students and Learning Mathematics.
 ISMTF (Int'l Schools Mathematics Teacher Foundation) Conf, Vienna, Austria, 19 Feb 2005.

Numerics Versus Symbolics.
 USACAS-3, Atlanta, Georgia, USA, 25 Jun 2005.

Numerics Versus Symbolics.

8th T³ Symp Oostende, Belgium, 18 Aug 2005.

CAS for Teaching Students and Learning Mathematics.

SCE2006, Int'l Seminar on Symbolic Computation in Education, Beijing, China, 13 Apr 2006.

CAS for Teaching Students and Learning Mathematics.

SCE2006, NCTM Regional Conf, Chicago, IL, USA, 20 Sep 2006.

New Views at Teaching and Learning with CAS.

USACAS-4, Aurora, IL, USA, 17 Jun 2007.

Technology for Teaching and Learning Mathematics.

TI-Nspire Conf for College Board AP Consultants, Texas Instruments, Dallas, TX, USA, 17 Nov 2007.

New Views at Teaching and Learning with CAS.

ATCM – Asian Technology Conf in Mathematics, Taipei, Taiwan, 19 Dec 2007.

Technology and the Yin&Yang of Mathematics Education.

Int'l Conf on School Curriculum in Mathematics, Chicago, IL, USA, 2 May 2008.

Technology and the Yin&Yang of Mathematics Education.

TIME-2008 (Technology and its Integration into Mathematics Education), Buffelspoort, South Africa, 23 Sep 2008.

Technology and the Yin&Yang of Mathematics Education.

SCA2010 (Symbolic Computation and its Applications), Maribor, Slovenia, 30 Jun 2010.

INVITED LECTURES AT INSTITUTIONS:

GE Research & Development, Schenectady, USA, 14 Feb 1986.

Univ of Delaware, Newark, DE, USA, 18 Feb 1986.

IBM Research Center, Yorktown Heights, NY, USA, 20 Feb 1986.

TH Darmstadt, Germany, 4 Dec 1986.

IBM Research Center, Yorktown Heights, NY, USA, 21 Apr 1987.

Renselaer Polytechnic Institute, Troy, NY, USA, 23 Jul 1987.

Univ of Kaiserslautern, Germany, 18 Apr 1989.

Univ of Exeter, UK, 6 Nov 1991.

Univ of Plymouth, UK, 6 Nov 1991.

Univ of Birmingham, UK, 7 Nov 1991.

Univ of Debrecen, Hungary, 24 Feb 1992.

Univ of Bayreuth, Germany, 11 Mar 1992.

Univ of Linköping, Sweden, 11 May 1992.

Univ of Gothenburg, Sweden, 12 May 1992.

Leeds Univ, UK, 7 Dec 1992.

Univ Politecnica de Madrid, Spain, 26 Oct 1993.

North Eastern Education and Library Board, Belfast, UK, 15 Nov 1993.

Univ of Utrecht, The Netherlands, 16 Nov 1993.

Moscow Pedagogical State University, Moscow, Russia, 31 Jan 1994.

Cambridge Univ, Cambridge, UK, 9 May 1994.

Lower Saxon Institute for Teacher Education, Wolfenbüttel, Germany, 8 Jun 1994.

Texas Instruments France, Paris, France, 7 Jun 1995.

Academy for Teacher Training, Dillingen, Germany, 16 Jan 1996.

Univ of Bayreuth, Germany, 28 Feb 1996.

Brazilian Center for Research in Physics, Rio de Janeiro, Brazil, 28 May 1996.

IME – Engineering Militar Institue, Rio de Janeiro, Brazil, 28 May 1996.

Universidade Federal do Rio de Janeiro, Brazil, 29 May 1996.

Faculdade Anhembi Morumbi, Sao Paulo, Brazil, 29 May 1996.

Escola do Futuro, Universidade de Sao Paulo, Brazil, 30 May 1996.

Universidade Paulista, Sao Paulo, Brazil, 30 May 1996.

Riosoft, Rio de Janeiro, Brazil, 31 May 1996.

Centro de Fisica Teórica, Univ of Petropolis, Brazil, 1 Jun 1996.

Univ of Bielefeld, Germany, 6 May 1997.

MathTech, Hindsdale, IL, USA, 10 Nov 1997.
Gettysburg College, Gettysburg, PA, USA, 12 Nov 1997.
Univ of Maribor, Slovenia, 19 May 1998.
Univ of Salzburg, Austria, 12 Oct 1998.
The National Education Institute, Ljubljana, Slovenia, 29 Oct 1998.
Technical Univ of Dresden, Germany, 10 Nov 1998.
Hessisches Lehrerfortbildungsinstitut, Weilburg, Germany, 23 Sep 1999.
Ro-Seminar, Ljubljana, Slovenia, 13 Oct 1999.
Staatl. Akademie für Lehrerfortbildung, Esslingen, Germany, 19 Oct 1999.
Landesinstitut für Schule und Weiterbildung, Soest, Germany, 25 Oct 1999.
Texas Instruments Inc, Dallas, TX, USA, 15 Nov 1999.
Vienna International School, Vienna, Austria, 10 Mar 2000.
Univ of Hannover, Germany, 21 Sep 2000.
Univ of Göttingen, Germany, 14 May 2002.
Univ of Tartu, Tartu, Estonia, 25 Oct 2002.
Hwa Chong Junior College, Singapore, 18 Oct 2003 (by invitation of the Ministry of Education).
Ministry of Education, Kuala Lumpur, Malaysia, 20 Oct 2003.
Singapore Polytechnic, Singapore, 21 Oct 2003 (by invitation of Association of Mathematics Educators).
American Univ of Sharjah, Sharjah, United Arab Emirates, 31 Mar 2004.
Singapore Polytechnic, Singapore, 15 Dec 2004.
Beihang Univ, Beijing, China, 11 Apr 2006.
Malaga Univ, Malaga, Spain, 20 May 2009.

CONFERENCE ACTIVITIES:

CONFERENCE CHAIR:

3rd ACDCA Summer Academy: Technology in Mathematics Education. Honolulu, USA, 31 Jul – 3 Aug 1995.
5th ACDCA Summer Academy: Recent Research in Derive/TI-92-Supported Mathematics Education, Gösing, Austria, 25-28 Aug 1999.
6th ACDCA Summer Academy: Exam Questions and Basic Skills in a Technology-Supported Mathematics Education, Portoroz, Slovenia, 2-5 Jul 2000.
VISIT-ME-2002 – Vienna Int'l Symp on Integrating Technology into Mathematics Education, Vienna, Austria, 10-13 Jul 2002.
TIME-2004 – Montreal Int'l Symp on Technology and its Integration into Mathematics Education, Montreal, Canada, 15-18 Jul 2004.

CONFERENCE MANAGEMENT:

EUROCAL'85 – European Conf on Computer Algebra, Linz, Austria, 1-3 Apr 1985.
3rd ACDCA Summer Academy: Technology in Mathematics Education. Honolulu, USA, 31 Jul – 3 Aug 1995.
VISIT-ME-2002 – Vienna Int'l Symp on Integrating Technology into Mathematics Education, Vienna, Austria, 10-13 Jul 2002.

CONFERENCE SESSION ORGANIZER:

Education Meets Computer Algebra. IMACS-ACA'98, Prague, Czech Republic, 9-11 Aug 1998.
Education Meets Computer Algebra. IMACS-ACA'99, Madrid, Spain, 24-27 Jun 1999.
Education Meets Computer Algebra. IMACS-ACA'00, St Petersburg, Russia, 26-28 Jun 2000.
Education Meets Computer Algebra. IMACS-ACA'01, Albuquerque, NM, USA, 31 May – 3 Jun 2001.
Derive, TI-89/92, and other CAS. ICTMT'01, Klagenfurt, Austria, 6-10 Aug 2001.

CONFERENCE PROGRAM COMMITTEE CHAIR:

2nd Krems Conf on Mathematics Education, Krems, Austria, 27-30 Sep 1993.
1st Int'l Derive Conf, Plymouth, UK, 11-15 Jul 1994.
5th ACDCA Summer Academy: Recent Research in Derive/TI-92-Supported Mathematics Education, Gösing, Austria, 25-28 Aug 1999.

VISIT-ME-2002 – Vienna Int'l Symp on Integrating Technology into Mathematics Education, Vienna, Austria, 10-13 Jul 2002.
TIME-2004 – Montreal Int'l Symp on Technology and its Integration into Mathematics Education, Montreal, Canada, 15-18 Jul 2004.
DES-TIME-2006 – Dresden Int'l Symp on Technology and its Integration into Mathematics Education, Dresden, Germany, 20-23 Jul 2006.
TIME-2008 – Int'l Conf on Technology and its Integration into Mathematics Education, Sun City, South Africa, 22-26 Sep 2008.
TIME-2010 – Int'l Conf on Technology and its Integration into Mathematics Education, Malaga, Spain, 4-7 Jul 2010.

CONFERENCE PROGRAM COMMITTEE MEMBER:

Int'l Spring School on the Didactics of Computer Algebra, Krems, Austria, 27-30 Apr 1992.
ICTMT'93 – Int'l Conf on Technology in Mathematics Teaching, Birmingham, UK, 17-20 Sep 1993.
Derive Days Leeds, Leeds, UK, 13-15 Apr 1996.
2nd Int'l Derive and TI-92 Conf, Bonn, Germany, 2-6 Jul 1996.
ICTMT'97 – Int'l Conf on Technology in Mathematics Teaching, Koblenz, Germany, 29 Sep – 2 Oct 1997.
Int'l Conf on Technology in Mathematics Education, Samos, Greece, 3-6 Jul 1998.
3rd Int'l Derive and TI-92 Conf, Gettysburg, PA, USA, 13-17 Jul 1998.
ATCM'98 – Asian Technology Conf in Mathematics, Tsukuba, Japan, 24-28 Aug 1998.
IMACS-ACA'99 – Applications of Computer Algebra, Madrid, Spain, 24-27 Jun 1999.
ICTMT'99 – Int'l Conf on Technology in Mathematics Teaching, Plymouth, UK, 9-13 Aug 1999.
ATCM'99 – Asian Technology Conf in Mathematics, Guangzhou, China, 17-21 Dec 1999.
2nd Mediterranean Conf in Mathematics Education, Nicosia, Cyprus, 7-9 Jan 2000.
ICTME – Int'l Conf on Technology in Mathematics Education, New York, NY, USA, 5-7 Jul 2000.
4th Int'l Derive and TI-89/92 Conf, Liverpool, UK, 12-15 July 2000.
ATCM'00 – Asian Technology Conf in Mathematics, Chiang Mai, Thailand, 17-21 Dec 2000.
IMACS-ACA – Applications of Computer Algebra, Albuquerque, NM, USA 31 May – 3 Jun 2001.
1st CIAMAC – Primera Conf Iberoamericana de Matematica Computacional, Bogota, Colombia, 25-27 Jul 2001.
ICTMT'01 – Int'l Conf on Technology in Mathematics Teaching, Klagenfurt, Austria, 6-10 Aug 2001.
ATCM'01 – Asian Technology Conf in Mathematics, Melbourne, Australia, 15-19 Dec 2001.
8th Int'l Conf on Applications of Computer Algebra, Thessaly, Greece, 25-28 Jun 2002.
2nd Int'l Conf on the Teaching of Mathematics, Crete, Greece, 1-6 Jul 2002.
ATCM'02 – Asian Technology Conf in Mathematics, Melaka, Malaysia, Dec 17-21, 2002.
3rd Mediterranean Conf in Mathematics Education, Athens, Greece, 3-5 Jan 2003.
ICTMT'03 – Int'l Conf on Technology in Mathematics Teaching, Thesaloniki, Greece, 10-13 Oct 2003.
Conf on Use of Technology in Mathematics Education, Ceske Budejovice, Czech Republic, 6-8 Nov 2003.
ATCM'03 – Asian Technology Conf in Mathematics, Hsin-Chu, Taiwan, 15-19 Dec 2003.
ATCM'04 – Asian Technology Conf in Mathematics, Singapore, 13-17 Dec 2004.
ATCM'05 – Asian Technology Conf in Mathematics, Cheong-Ju, Korea, 12-16 Dec 2005.
ATCM'06 – Asian Technology Conf in Mathematics, Hongkong, China, Dec 2006.
CADGME – 1st Central and Eastern European Conf on Computer Algebra and Dynamic Geometry Systems in Mathematics Education, Pécs, Hungary, 21-23 Jun 2007.
ICTMT8 – Int'l Conf on Technology in Mathematics Teaching, Hradec Kralove, Czech Republic, 1-4 Jul 2007.
ATCM'07 – Asian Technology Conf in Mathematics, Taipei, Taiwan, 16-20 Dec 2007.
ATCM'08 – Asian Technology Conf in Mathematics, Bangkok, Thailand, 14-18 Dec 2008.
CADGME – 2nd Central and Eastern European Conf on Computer Algebra and Dynamic Geometry Systems in Mathematics Education, Hagenberg, Austria, 11-13 Jul 2009.

EDITING:

EDITOR-IN-CHIEF:

bk teachware Publication Series "Support in Learning", bk teachware, Hagenberg, Austria, 1997-2008.

MEMBER OF EDITORIAL BOARD:

The International Derive Journal, Paramount Publishing, Hemel Hempstead, UK, 1994-1996.

MISCELLANEOUS:

PROJECT LEADER:

Teaching Mathematics with Derive. COMETT, European Community Project, 1994-1995.

FOUNDER OF:

Soft Warehouse Europe GmbH & CoKG (LLC), 1990-2006.

bk teachware Lehrmittel GmbH & CoKG (LLC), 1995-2008.

CO-FOUNDER OF:

DUG – Derive User Group, 1991.

ACDCA – Austrian Center for Didactics of Computer Algebra, 1993.

IGHT – Internationale Gesellschaft für Haysche Trennkost (Int'l Society of Food Combining), 1993.

CAME – Int'l Council for Computer Algebra in Mathematics Education, 1994.

SPORTS AND PERFORMING ARTS:

2011-today Overtone Chanting

2005-2013 Singing (Bass; *Chorus* and *Solo*)

1979-2003 Jazz Dance, Tap Dance (member of the Dance Company "*York Dancers*")

1978-1981 Ballroom Dancing (member of the *Austrian Junior National Team*)

1975-1977 Badminton (*Nationally Certified Badminton Instructor*)

CHOREOGRAPHY:

Lucky Strike. Theater Phönix, Linz, Austria, 1995.