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One Five

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Council on Technology Teacher Education

From The President

Twenty-plus boxes of 2009 CTTE Yearbooks arrived in our building the other day, so we are in the process of stuffing envelopes right now. The several hundred domestic and dozens more international copies should be out through the postal system in the next 6-10 days.

This book is a very special publication, as it highlights the works from previous yearbooks. But not just any chapters . . . this book includes content that aligns with the ten program assessment standards found in the ITEA / CTTE / NCATE benchmarks. Chapters related to each theme were selected from yearbooks published over the past decade.

The '09 Council yearbook includes the best, most original observations of Rod Custer, Paul DeVore, Marc de Vries, Bill Dugger, Mark Sanders, Tony Schwaller, Tom Wright, et al. A full list of chapters and authors can be found on page 2 of this newsletter. This book is truly a treasury of insights, of wisdom, of professionalism.

I would like to share a segment of the introduction that I prepared last fall (for inclusion in the front matter of the 2009 yearbook) . . .

> *Nothing has been more important to the relevance or the positioning of the field of Technology Education as the efforts aligned with national content standards and a comprehensive assessment system for our profession. These initiatives have helped the discipline gain recognition, and placed us on a parallel footing with other subject areas.*
>
> *Obviously, the primary curriculum standards work in Technology Education centered on the Technology for All Americans (TFAA) project. With the release of the STL standards in April 2000, members of this Council then developed teacher preparation program assessments linked to a universal group of content benchmarks. Today, ten unique standards define accredited technology teacher preparation institutions, with five standards related to "subject matter for technology education" and another five standards that address "effective teaching for technology education".*

Thanks to the efforts of the CTTE Yearbook Planning Committee and to the authors featured in this special publication.

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"Essential Topics For Technology Educators"

2009 CTTE Yearbook Topics & Authors

Section I: The Nature Of Technology
- Chapter 1: Technology and Science
- Paul W. DeVore / West Virginia University
- Chapter 2: Concepts in Technology: Seeing The Order In Chaos
- Marc J. de Vries / Eindhoven University

Section II: Technology
- Chapter 3: Ethics in a Culturally Diverse Technological World
- Linda Rae Markert / State University of New

Section III: Design
- Chapter 4: Design and Problem-Solving In Technology Education
- Richard Westberry / Southern Illinois University
- Chapter 5: Design—The Creative Soul of Technology
- James R. McCracken / Bemidji State University
- Chapter 6: Creativity in the
- A Search for Insight – Inventors and Inventions
- Paul W. DeVore / West Virginia University

Section IV: Abilities for a Technological World
- Chapter 7: Standards for Technological Literacy:
- Content for the Study of Technology
- William E. Dugger, Jr. / Technology for All Americans

Section V: The Designed World
- Chapter 8: Education About Technology
- Michael R. Kozak / University of North Texas
- Janet Robb / Florida State University

Section VI: Curriculum
- Chapter 9: Restructuring the Technology Teacher Education Curriculum
- Rodney L. Custer / Illinois State University
- R. Thomas Wright / Ball State University

Section VII: Instructional Strategies
- Chapter 10: Instructional Strategies for Technology Education
- Anthony E. Schwaller / St. Cloud State University
- Chapter 11: Teaching Social/Cultural Impacts in Technology Education
- Brian McAlister / University of Wisconsin—Stout

Section VIII: Learning Environments
- Chapter 12: Environmental and Climate Challenges in Technology Education
- Jane A. Liedtke / Illinois State University

Section IX: Students
- Chapter 13: Do We Teach Technology? Yes, But We Also Teach Kids!
- Richard D. Seymour / Ball State University
- Chapter 14: Technology Teacher Education in the United States
- Mark Sanders / Virginia Polytechnic Institute & State University

Section X: Professional Growth
- Chapter 15: Professional Associations
- Organizations & Other Growth Opportunities
- Edward M. Reeve / Utah State University
- Chapter 16: Teachers for Tomorrow
- William D. Greer / Fort Worth Independent School District

Green Technology: STEM Solutions For 21st Century Citizens

CTTE Conference Program @ Charlotte

The review of CTTE conference applicants wrapped-up in June. Congratulations to all CTTE members who had their proposals accepted for research and special interest sessions at the 72nd annual ITEA Conference (March 18-20, 2010). The research and special interest topics (plus the names of presenters) include.

Concepts and Contexts in Engineering and Technology Education
Michael Hacker, Marc de Vries, & David Burghardt

EnviroTech: Results of a Distributed Professional Development Project
Mary Annette Rose

Evolution of Technology Education Beliefs/Practices
Mark Sanders

Impact of Technology on Learning: Gen Ed Course
Brian McAlister

Informed Design: Improving Student Learning in Mathematics
David Burghardt, Michael Hacker, & Deborah Hecht

Learning Effects and Attitudes of Design Strategies on Secondary Students
Robert Wicklein & John Mativo

Pedagogical Content Knowledge in the Secondary STEM classroom
Ryan Brown & Josh Brown

Real-World TE Practices and Learning Outcomes
Mark Sanders

Research and Practice for Engineering Professional Development
Jenny Daugherty, Rodney Custer, Tom Erekson, Daniel Householder, & Joe Meyer

STEM-based Elementary Education Teacher Preparation Program
Steve O'Brien

Teaching Historiography
Jim Flowers

Technological Literacy in K-12 Teacher Preparation
Roger Skophammer

ITEA Charlotte
North Carolina • March 18-20, 2010

CTTE Notes For July 2009

Notes related to the work of the Council:

* **2009 Yearbook**: Hard-cover copies of the '09 Council yearbook will be available for purchase . . . . they will make an excellent textbook for introductory or special methods classes at your institution. The cost will be $25.00 per book, all S/H fees included. For availability, contact Dr. Richard Seymour at Ball State University: rseymour@bsu.edu or 765-285-5652

* **Electronic versions of the 2009 Yearbook**: Shortly, we should have details about obtaining an on-line version of the Council's latest publication. The electronic version will be disseminated through Glencoe / McGraw-Hill.

* **Use of Older CTTE Yearbooks For Fall 2009 Classes**: CTTE that are classified as out-of-print are the intellectual property of the Council. Should you need permission to duplicate a part of, or entire, yearbook . . . contact: rseymour@bsu.edu

* **"No" Yearbook Luncheon Event @ Charlotte**: No CTTE yearbook meal will be a scheduled for Charlotte, due in large part to the ITEA-CS officials opting out of co-sponsoring the event. Instead our CTTE Technology Educator-Of-The-Year will be recognized at the annual CTTE Business Meeting along with the yearbook editors and authors. The teacher of the year recipient will also be introduced at the ITEA Awards program on Saturday of the Charlotte conference.

* **Council Awards**: CTTE recognizes many individuals and institutions on an annual basis. As you plan ahead for the fall, think about nominating yourself, colleagues, or your school for a Council award. Award categories are on the CTTE website and will be highlighted in media by mid-August.

2009 / 2010 CTTE Officer Team

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