

**PROFESSIONAL EXPERIENCE**

Dr. Clements is a national expert on education data standards, indicators of education progress, and the confidentiality of student records. As such, she consults with federal, state, and local education agencies on data quality, reduction of data burden, effective data reporting, security, data confidentiality, data governance, and other issues related to efficient and effective education data management. She has provided direction and coordination of numerous projects designed to improve the quality and availability of information on education. Dr. Clements has worked extensively with the U.S. Department of Education (USED) and many state education agencies on projects related to the collection and reporting of education data. Dr. Clements has led the ESP team working with USED staff from the beginning of the EDEN/EDFacts project. She was the original lead in identifying the data elements, definitions, and code sets for EDFacts based on discussion with USED program offices. She and her colleagues continue to support the EDFacts project by conducting technical assistance visits to states as part of the State Education Information Support Services and by assisting states in the reporting of data to EDFacts. Dr. Clements has been involved in the development of education data standards since 1987. She oversaw revisions to National Center for Education Statistics data handbooks while at the Council of Chief State School Officers and in recent years assisted in the development of the Common Education Data Standards for USED, including providing guidance on the inclusion of postsecondary and workforce data elements.

Dr. Clements has worked extensively with the automation and standardization of high school and college transcripts. While at CCSSO, she played a leadership role in developing the Electronic Data Interchange standard for an electronic transcript (SPEEDE/ExPRESS) and participated in the development of standard formats for the Schools Interoperability Framework (SIF) and the Postsecondary Electronic Standards Council (PESC). Dr. Clements has assisted several states with the implementation of the NCES Secondary School Course Classification: School Codes for the Exchange of Data (SCED). She conducted a study for NCES in which she mapped the Classification of Secondary School Courses (CSSC) to the predecessor of SCED, called the Pilot Standard National Course Classification System for Secondary Education (SNCCS). She has worked with five states on the planning and implementation of electronic transcripts.

Dr. Clements has over twenty-five years of experience directing projects designed to improve the quality and availability of information on education, many funded by the USED. Numerous products have resulted from these activities.

ESP Solutions Group, Inc. (formerly Evaluation Software Publishing, Inc.)

Vice President for Education Services (1997 – Present)

Responsibilities include project design and management, program evaluation, software conceptualization, and consulting on education information management systems and technology utilization. Extensive work conducted for U.S. Department of Education on EDFacts. Works with many state education agencies on design and implementation of data systems, including the development of Data Access and Management Policies and data governance.

Serves as FERPA contact for ESPSG, providing regular training to staff and approving all FERPA-related products and activities.

#### National Transcript Center

##### Chief Standards Officer (2006-2009)

Responsibilities included content review with clients and consulting on training and roll-out of projects. Maintained the mapping of national standards to allow for crosswalks across standards. Worked with states to develop agreement about the contents of their electronic transcripts. Represented NTC in national standards activities, including the Schools Interoperability Framework Association and the Postsecondary Electronics Standards Council, including serving as co-chair of the Education Records User Group.

##### Council of Chief State School Officers (Washington, DC)

##### Acting Director, State Education Assessment Center (1995 –1996)

Directed projects designed to improve the quality and availability of information on education. Responsibilities included coordinating Center activities and advising project directors; coordinating a task force of Council members; developing funding proposals; and handling inquiries about Center projects and activities.

##### Project Director, Data and Information System Projects (1987 – 1997)

Directed a series of federally funded projects to promote better collection and management of education information. Oversaw the development of indicators to assess the quality and progress of the education system, handbooks for the standardization of student and staff data, guidelines on information management systems, and guidelines on technology implementation. Provided technical support for state education agencies as they automated data collection and reporting. Responsibilities included analysis of data collection systems, convening of task forces and working groups, development of written recommendations, provision of technical assistance, and presentation and dissemination of information to the public. Served on national panels related to education data collections.

#### Texas Education Agency

##### Education Program Director (1984-1987)

Worked on projects related to the development and research on assessment and appraisal systems for Texas educators. Responsibilities included analysis and interpretation of data, monitoring funded research projects, development of descriptive materials, provision of staff development activities, and dissemination of information to the public.

#### **The University of Texas at Austin**

##### Research Associate, R&D Center for Teacher Education (1977-1984)

Provided direction and conducted data collection and analyses on seven classroom management research projects which focused on effective teaching for student learning. Responsibilities included collection, analysis, and interpretation of the data; training and supervision of research personnel; development of training and data collection materials; liaison with school district personnel; computer analyses; and dissemination of findings. Conducted presentations and workshops related to the research.

## **EDUCATION**

Ph.D. in Educational Psychology, Quantitative Methods and Evaluation—The University of Texas at Austin

M. A. in Applied Linguistics, Foreign Language Education—The University of Texas at Austin

B. S. in Education, Secondary Education, Spanish and Government—The University of Texas at Austin

## **HONORS, AWARDS, MEMBERSHIPS**

Honors: Who's Who of American Women; Phi Delta Kappa

Organizations: Postsecondary Electronic Standards Council; Schools Interoperability Framework, American Educational Research Association; International Society for Technology in Education

Certifications: Texas Provisional (Permanent) Secondary Teaching Certificate (Spanish and Government)

## **PUBLICATION AND PAPERS**

### **BOOKS**

Evertson, C., Emmer, E., Clements, B., & Worsham, M. (1997). *Classroom Management for Elementary Teachers* (Fourth Edition). Englewood Cliffs, N.J.: Prentice-Hall, Inc.

Emmer, E., Evertson, C., Clements, B., & Worsham, M. (1997). *Classroom Management for Secondary Teachers* (Fourth Edition). Englewood Cliffs, N.J.: Prentice-Hall, Inc.

### **BOOK CHAPTERS**

Wood, N., Clements, B., & Kugle, C. (1987). Assisting examinees and teacher education programs in preparing for the Examination for the Certification of Educators in Texas (ExCET) Program. In Chernoff, M., Nassif, P., & Gorth, W. (Eds.), *The Validity Issues: What should teacher certification tests measure?* Hillsdale, N.J.: Lawrence Erlbaum Associates.

Veselka, M., Wood, N., Clements, B., Tackett, P., & Kugle, C. (1986). Job analysis in the Texas educator initial certification testing program. In Gorth, W., & Chernoff, M. (Eds.), *Testing for Teacher Certification*. Hillsdale, N.J.: Lawrence Erlbaum Associates.

### **COMMISSIONED PAPERS**

“Why a State-to-State Assessment Item Exchange? A Policy Framework and Discussion of Issues,” for the U.S. Open e-Learning Consortium (with Glynn D. Ligon, Winona Burt, and Evangelina Mangino), 2002.

“Results of the Evaluation of the CCSSO Science and Mathematics Education Indicators Projects,” for the Council of Chief State School Officers, 1999.

“Summary of State Practices with Regard to Individual Student Records,” for the Massachusetts Department of Education, October 1998.

“Review of Proposed Data elements for the Massachusetts Student Information Management System,” (with Glynn D. Ligon) for the Massachusetts Department of Education, January 1998.

“Protecting the Confidentiality of Education Records in State Databases,” for the Massachusetts Department of Education, December 1997.

Report of the Goal 2 Technical Planning Subgroup on Core Data Elements. Washington, DC: National Education Goals Panel, 1993.

“The Condition of Indicators on Gender Equity,” (with Ramsay W. Selden and Rolf K. Blank) in *The AAUW Report: How Schools Shortchange Girls*. Washington, DC: American Association of University Women Educational Foundation, 1992.

## **ARTICLES**

Clements, B.S. (1990). What is a dropout? *The Education Digest*, 56(4).

Clements, B.S. (1990). What is a dropout? *The School Administrator*, 47(3).

Clements, B.S. (1988). Effects of the reform movement on the evaluation of teachers. The Texas Experience. *Design for Arts in Education*, 89(4).

Sanford, J.P., Emmer, E.T., & Clements, B.S. (1983). Improving classroom management. *Educational Leadership*, 40.

Evertson, C.M., Emmer, E.T., Sanford, J.P., & Clements, B.S. (1983). Improving classroom management: An experiment in elementary classrooms. *The Elementary School Journal*, 84.

## **SELECTED REPORTS**

Contributor to and final editor of *Technology @ Your Fingertips*. Washington, DC: U.S. Department of Education, National Center for Education Statistics. NCES 98-293, 1997.

Cheung, O., Clements, B., & Pechman, E. *Protecting the Privacy of Student Records: Guidelines for Education Agencies*. U.S. Department of Education, National Center for Education Statistics. (unpublished)

Principal author (with Oona M. Cheung, Thomas A. Szuba, Carol Miu, and Kathleen Aldrich) of the *Staff Data Handbook for Elementary, Secondary, and Early Childhood Education*.

Washington, DC: U.S. Department of Education, Office of Educational Research and Improvement, National Center for Education Statistics, 1995. Oversaw revisions in 2001.

Principal author (with Oona M. Cheung, Thomas A. Szuba, Lisa W. Solomon, and Kathleen Aldrich) of the *Student Data Handbook for Elementary, Secondary, and Early Childhood Education*. Washington, DC: U.S. Department of Education, Office of Educational Research and Improvement, National Center for Education Statistics, 1994. Oversaw revisions in 2000.

Contributor to *Recommendations and Policy Implications for Improving the Assessment and Monitoring of Students with Limited English Proficiency*. Washington, DC: Council of Chief State School Officers, 1992.

Contributor to *SEDCAR: Standards for Education Data Collection and Reporting*. Washington, DC: WESTAT, Inc., 1991.

Numerous other written reports and oral presentations on education data collection and reporting at meetings such as the annual meetings of the American Educational Research Association and the American Statistical Association and at state and federal data conferences.

#### **ESP Solutions Group Optimal Reference Guides**

*Reinventing Data Standards – Again (with Glynn D. Ligon), 2010.*

*Graduation Rates: Failing Schools or Failing Formulas, 2008.*

*The Reauthorization of FERPA, 2008.*

*Confidentiality and Reliability Rules for Reporting Education Data (with Glynn D. Ligon), 2008.*

*Accessing Student Records in a State Longitudinal Database, Data Warehouse Series, Part III (with Greg Nadeau), 2008*

*The Dash between PK and 20 – A roadmap for PK-20 longitudinal data systems, 2007*

*Why Your State Needs a PK-20 Electronic Record/Transcript System (with Mark Johnson), 2007.*

*Articulating the Case for Course Numbers (with Glynn D. Ligon), 2006.*

*Electronic Student Records and Transcripts: The SEA Imperative (with Glynn D. Ligon), 2006.*

*Recommended Data Elements for EDEN Reporting, 2006.*

*National Education Data Standardization Efforts, 2005.*

*Racial/Ethnic Data Reporting in Education, 2005.*

*Statewide Student Identifier Systems (with Glynn D. Ligon), 2004.*

## **RECENT TASK FORCES AND OTHER PROFESSIONAL ACTIVITIES**

Special Education Data Accountability Center Advisory Committee, U.S. Department of Education, Washington, DC, 2007-2012.

Served as an expert reviewer for the Evaluation of the U.S. Department of Education's Comprehensive Centers, 2007-2009.

Title I Indicators Advisory Group, Council of Chief State School Officers and U.S. Department of Education, 1997-2000.

Science and Mathematics Education Indicator Advisory Group, Council of Chief State Schools Officers, 1997-2000.

National Education Goals Panel Resource Group for Goal 2, 1993-2000.

Served on two Interim Evaluation Review Panels of the federally funded Regional Educational Laboratories, Spring 1999.

National Forum on Education Statistics, representing the Council of Chief State School Officers, 1993-1997. (Assisted in establishing the Forum in 1988, and served as a resource between 1988-1993.)

2000 Census Advisory Committee, sponsored by the U.S. Department of Commerce, representing the Council of Chief State School Officers, 1991-1997.

Exchange of Permanent Records for Students and Schools (ExPRESS) Task Force, sponsored by the National Center for Education Statistics, 1989-1996.

Records Exchange Task Force, sponsored by the Office of Migrant Education and the National Center for Education Statistics, 1995.

Presenter at hearings concerning the education administrative and instructional uses and security of the National Information Infrastructure, 1994-1995.

Panel on Postsecondary Education Data, sponsored by the National Center for Education Statistics, representing the Council of Chief State School Officers, 1994-1995.

National Education Goal Two Advisory Group, 1993-1994.

Respondent Panel for the national Center for Education Statistics on the Organization for Economic Co-Operatoin and Development (OECD) Survey on Decision-Making in United States Schools, February, 1993.

Presenter on Race/Ethnicity, SES & Health: Data Needs and Data Challenges, National Committee on Vital and Health Statistics, Washington, DC, November 19992.

Vocational Education Working Group, sponsored by the U.S. Department of Education, 1991-1992.

Office of Special Education Programs Exiting Task Force, U.S. Department of Education, 1990-1991.

ERIC/OSEP Special Project, Research Forum on Differing Approaches to Defining and Measuring Personnel Supply and Demand, Washington, DC, November, 1990.

Special Education Data Advisory Committee, U.S. Department of Education, Washington, DC, 1989-1990.

Dropout Pilot Task Force, sponsored by the National Center for Education Statistics, 1988-1990.