

CRDGG

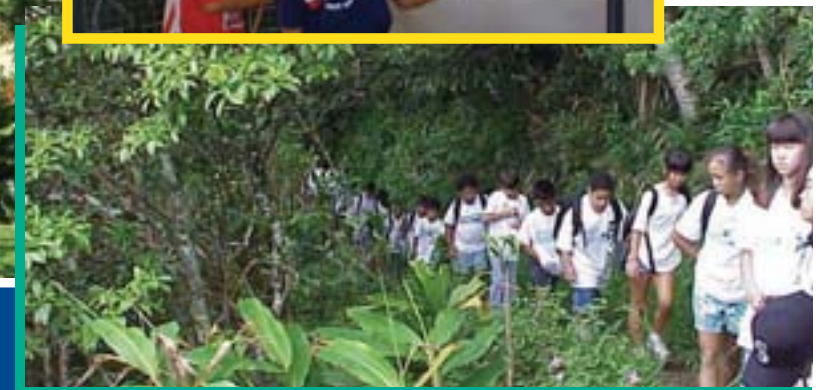
Year in Review 2003

University of Hawai'i at Mānoa
College of Education
Curriculum Research & Development Group

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College of Education
Curriculum Research & Development Group
1776 University Avenue
Honolulu, Hawai'i 96822

Phone: (808) 956-7961
Fax: (808) 956-9486
E-mail: crdg@hawaii.edu
Website: www.hawaii.edu/crdg

University of Hawai'i at Mānoa
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CRDG Mission Statement

The Curriculum Research & Development Group (CRDG), with its Education Laboratory School, is an organized research unit in the College of Education at the University of Hawai'i that conducts research and creates, evaluates, disseminates, and supports educational programs that serve students, teachers, parents, and other educators in grades preK–12.

CRDG contributes to the body of professional knowledge and practice in teaching and learning, curriculum development, program dissemination and implementation, evaluation and assessment, and school improvement.

CRDG . . . providing quality educational programs and services for preschool through grade 12.

Collaborations

Universities

Ball State University
Bucknell University
Carnegie Mellon University
George Washington University
Georgia State University
Illinois State University
Indiana University of Pennsylvania
Miami University of Ohio
Mississippi State University
Ohio State University
Purdue University
Shippensburg State University
Sonoma State University
Stanford University
University of Arizona
University of California–Davis
University of Illinois
University of Maine
Western Illinois University

Schools

Connections Public Charter School, Hawai'i
Department of Education Schools, Hawai'i
Kamehameha Schools, Hawai'i

Educational Research/Service Agencies

ARTS First Partners, Hawai'i
Center for Conservation Research and Training, University of Hawai'i
College of Tropical Agriculture and Human Resources, University of Hawai'i
Education Development Center, Massachusetts
Eisenhower National Clearinghouse for Mathematics and Science, Ohio
Hawaii Alliance for Arts Education, Hawai'i
Institute for Native Pacific Education and Culture, Hawai'i
Pacific Circle Consortium
Pacific Regional Mathematics and Science Consortium, Hawai'i

Pacific Resources for Education and Learning, Hawai'i
Research Corporation of the University of Hawai'i, Hawai'i
University of Hawai'i Foundation
WestEd, California

International Partners

Japan

Keo University
Nishinippon High School
Sohseikan High and Middle School
University of Tokyo

Korea

Korea Educational Development Institute
Korea Institute of Curriculum of Education
Korea National University of Education

Pacific Islands Departments of Education

American Samoa
Federated States of Micronesia (Chuuk, Kosrae, Pohnpei, Yap)
Commonwealth of the Northern Mariana Islands
Guam
Republic of Palau
Republic of the Marshall Islands

Russia

Academy of Sciences, Scientific Council for Cybernetics
Russian Ministry of Education
Institute of Developmental Psychology and Pedagogy
Krasnoyarsk State University
Krasnoyarsk Department of Education

Singapore

Ngee Ann Polytechnic Institute

Slovakia

Comenius University, Bratislava

“Committed to Quality”



Donald B. Young
Director, CRDG
Professor of Education

Looking back at the highlights of 2003—the new projects, new faculty and staff, new vision and reaffirmed mission, and new focus areas for our work—a unifying theme is evident, commitment to quality. Research excellence drives our spending priorities, our hiring, and our success in attracting contracts and grants to support our work. It is the platform from which we make the bold commitment to become *a learner-centered community of educators, recognized locally, nationally, and globally for quality research, design, and curricula that inspire dynamic teaching and learning.*

It is fitting that we focus this first annual *Year in Review* on research excellence and the resources that allowed us to achieve it. Throughout this report you will read stories about the people that make up CRDG, their commitment to quality, and the research and funding partners with whom they have established relationships. You will also read about the results of our work—faculty publications, textbooks and media products, as well as awards and recognitions. And you will see how the Laboratory School students play a key role in our research and development work.

Faculty recognitions in 2003 included two prestigious awards for publications: the Ka Palapala Po‘okela award for Excellence in Literature from the Hawai‘i Book Publishers Association, and the Franklin Buchanan Prize from the Association for Asian Studies. The Laboratory School continues to be ranked among the top public schools in the state based on Hawai‘i Content and Performance Standards assessments. Needless to say, we are proud of our faculty and our students.

And yet, 2003 was a year of transition. Our founder and long-time director, Dr. Arthur King retired as did Laboratory School principal Dr. Loretta Krause. It is a tribute to their vision, persistence, creativity, and commitment to excellence that the organization not only weathered the transition, but thrives due to the solid foundation they forged. We are fortunate to have both Dr. King and Dr. Krause continue to serve as consultants, advisors, and mentors for our administration, faculty, and staff, especially for new Principal Jane Burke and me.

In the words of Aristotle, “We are what we repeatedly do. Excellence, therefore, is not an act, but a habit.” At CRDG we continue to be committed to excellence and quality.

CRDGG

our roots



1895

A teacher training department is formed at Honolulu High School, located in Princess Ruth's former mansion (now Central Intermediate School).

1896

The teacher training department moves to Victoria and Young Streets and is renamed Honolulu Normal and Training School.

1905

After annexation, Hawai'i becomes a U.S. territory. Honolulu Normal and Training School is renamed Territorial Normal and Training School, and moves to Lunalilo and Quarry streets.

1921

Benjamin Wist becomes the principal of the school.

1930

The school moves to a new 15-acre site (once a pig farm) adjoining the University of Hawai'i at Mānoa. The University's Department of Secondary Education becomes the School of Education.

1931

The legislature transfers the Territorial Normal and Training School to the School of Education. The School of Education is renamed Teachers College.

1939-41

An elementary school (University Elementary School) is built on Metcalf Street as part of Teachers College. Construction begins on Castle Memorial Hall, a training center for kindergarten and nursery school teachers.

1941-45

Punahou School, displaced by the military occupying its campus, moves into Castle Memorial Hall and other buildings, but Teachers College continues to operate.

1943

University High School Building 1 on the Metcalf Street side of Teachers College is completed.

1948

University High School Building 2 is constructed adjacent to Building 1. The University Laboratory School (ULS) now offers a complete K–12 curriculum. Hubert Everly (later dean of the College of Education) becomes the principal.

1959

Teachers College becomes the College of Education, and Hawai'i becomes the fiftieth state.

1966

ULS becomes part of a new entity, the Hawaii Curriculum Center. This is a joint operation of the Hawai'i Department of Education and the University of Hawai'i to develop curriculum programs and materials for schools.

1969

The Hawaii Curriculum Center is phased out and ULS comes under a new College of Education unit known as the Curriculum Research & Development Group (CRDG).

1996

CRDG, along with other research units, reorganizes under the UH Office of the Senior Vice President for Research.

2000

CRDG merges with the College of Education. ULS applies for charter school status.

2001

ULS becomes a charter school and is renamed the Education Laboratory: A Hawai'i New Century Public Charter School. CRDG continues to operate the school as a laboratory for curriculum R & D.



ELS student artworks are displayed throughout Castle Memorial Hall. These pastel self-portraits are by Matthew Miller's ninth and tenth graders.

Curriculum Research & Development Group

The Curriculum Research & Development Group (CRDG) is an organized research unit of the College of Education at the University of Hawai'i. Established in 1966, CRDG

- ▼ conducts research and creates, evaluates, disseminates, and supports educational programs that serve students, teachers, parents, and other educators in grades preK–12; and
- ▼ contributes to the body of professional knowledge and practice in teaching and learning, curriculum development, program dissemination and implementation, evaluation and assessment, and school improvement.

During 2003, CRDG administered some 47 contracts and grants totaling over \$10.5 million from agencies such as the Hawai'i Department of Education, the U.S. Department of Education, the U.S. Department of State, the U.S. Department of Defense, and the National Science Foundation. The ratio of external funding to general-fund support is currently 6:1.

CRDG operates the Education Laboratory: A Hawai'i New Century Public Charter School (ELS) as its R & D laboratory under an agreement with the local school board. About 60% of the CRDG contracts and grants require access to the ELS students on a regular and ongoing basis.

ELS provides a K–12 student population in a controlled environment where CRDG faculty conducts its research and development work. Additionally, ELS serves as a demonstration site for improving K–12 education, while providing high quality education for its 378 students. The students, randomly selected to represent a broad cross section of the state population, provide feedback on ways all students can succeed.



Funding Agencies

Hawaii Association of Independent Schools
Hawai'i Department of Education
Hawai'i Department of Health
Japan United States Friendship Commission
National Science Foundation
U.S. Department of Agriculture
U.S. Department of Defense
U.S. Department of Education
U.S. Department of Health
U.S. Department of State
University of Hawai'i

Co-Publishers

University of Hawai'i Press
Mutual Publishing
Bamboo Ridge Press
Oregon State University
Slimgoodbody Corporation
Videodiscovery, Inc.



CRDG Focus Areas

CRDG focuses on five interrelated fields of educational endeavor, each of which addresses a central issue facing education in Hawai'i, on the U.S. Mainland, in American overseas schools, and in other nations.

Focus Area 1. Mathematics and Science Education

Focus Area 2. Hawai'i, Asia, and the Pacific

Focus Area 3. Relating Special Education to Regular Classrooms

Focus Area 4. Educational Technology Development

Focus Area 5. Designing Educational Systems

In each focus area, CRDG's faculty have accumulated a solid foundation in curriculum research and development; designing and delivering professional development for educators; evaluating and documenting evidence of impact on learning, teaching, and assessment; and disseminating and implementing effective programs.

The following highlights CRDG's major research and development activities in the five focus areas.



Pastel painting by ELS grade 11 student Denise Oishi.

Measure Up

ELS second and third graders are helping researchers develop a unique elementary mathematics program called *Measure Up*. Researchers observe students engaged in number, measurement, algebra, and geometry activities to learn how these activities stimulate algebraic thinking and foster development of problem-solving skills.

The curriculum being designed and developed for grades 1–5 is based on preliminary work by a group of psychologists, mathematicians, and educators in Russia. The CRDG mathematics section, in collaboration with the Institute of Developmental Psychology and Pedagogy (Krasnoyarsk, Russia), will combine this earlier work with new findings from pilot-test sites at ELS, Connections Public Charter School in Hilo, and a laboratory school in Krasnoyarsk.

“I have been amazed at the sophisticated mathematics young children are able to work with. These children are working with mathematical ideas that are often found in the middle grades.”

Barbara Dougherty
Measure Up Project Director



Highlights

- ▼ Development continues for *Measure Up*, a research-based elementary mathematics curriculum that uses measurement as the basis for developing understanding of algebraic concepts.
- ▼ CRDG and Ngee Ann Polytechnic in Singapore are collaborating to create an introductory engineering mathematics course based on the CRDG text *Algebra I: A Process Approach*.
- ▼ *Reshaping Mathematics for Understanding* developed three modules now available.
- ▼ Mathematics faculty published *Explorations in Algebra*.
- ▼ *Write Way Journal Prompts* are being used widely to improve standardized test scores.

Highlights

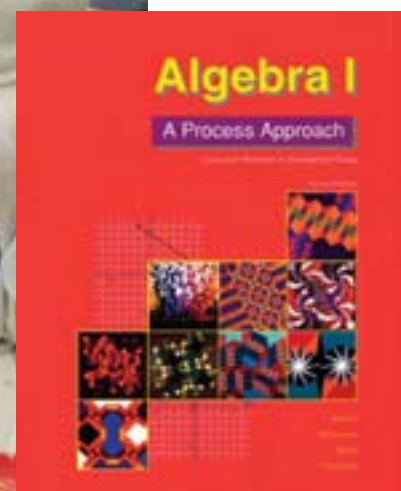
- ▼ *Physics, Physiology and Technology*, a course for high-school science that integrates these subjects through inquiry science teaching, is being developed and used experimentally in Hawai'i.
- ▼ CRDG's exemplary middle-school science program *Foundational Approaches in Science Teaching (FAST)* is undergoing revision.
- ▼ CRDG's *Developmental Approaches in Science, Health, and Technology (DASH)* grade 6 is in its final stages of development; grades K-5 are being revised.
- ▼ Teachers in Hawai'i and elsewhere are providing feedback for *Hawai'i Marine Science Studies* revisions.

Singapore Adaptation of Algebra Text

CRDG and Ngee Ann Polytechnic Institute in Singapore are collaborating to create an introductory engineering mathematics course for Ngee Ann students based on the CRDG text *Algebra I: A Process Approach*. The partnership is believed to be the first of its kind under the U.S. Department of Education and Singapore government memorandum of understanding in which the two countries agreed to cooperate to improve mathematics and science education.

CRDG mathematics educators are leading a team of curriculum developers to produce student and instructor materials, professional development components, and a technology-based tutorial and testing system. The Singapore group will contribute technology materials to be used for tutorials and online assessments. The final product, for post-secondary engineering students, will be available in summer 2004.

Ngee Ann selected *Algebra I: A Process Approach* because it uses problem solving and communication strategies.



Foundational Approaches in Science Teaching (FAST)

FAST is a multidisciplinary program emphasizing the concepts and methods of physical, biological, and earth sciences, and their relation to local environments. Students in grades 6–10 devote most of the time in each course to conducting laboratory or field investigations. They construct their own records of investigations, validate hypotheses, and create generalizations that form the conceptual base of modern science.

During 2003, FAST materials were revised based on data collected in recent use in Hawai'i and nationally. FAST also is being studied in three National Science Foundation funded research projects.

Phase-I Study of the Effects of Professional Development and Long-Term Support on Curriculum Implementation and Scaling-Up (Scaling-Up Project)

This National Science Foundation research project examines the impact of the professional development provided in CRDG's FAST program. In collaboration with Stanford University and Sonoma State University, CRDG researchers are preparing alternative versions of FAST professional development and assessment instruments to study the implementation and outcomes of FAST. Work in this phase will be used in a follow-up experimental national study to compare the current version of professional development with the alternatives.



Highlights

- ▼ The Science Section continues to research effective uses of the Hawai'i Interactive Television System (HITS) to provide professional development and support to teachers using new curricula. Three in-service programs are being developed for HITS.
- ▼ CRDG contributed more than \$50,000 worth of science, mathematics, and literature textbooks, benefitting more than 400 teachers and 10,000 students in Hawai'i public schools.
- ▼ CRDG provided professional development for more than 1,600 science, mathematics, civics, and art teachers in Hawai'i, on the mainland, and outside the U.S.

CRDG Professional Development

CRDG faculty provided professional development for over 1,600 K–12 teachers.

	Number of Teachers by Area		
	Hawaii	Nationally	Internationally
Science	215	89	168
Mathematics	402	37	546
Civics			126
Art	31		

On Beginning the Romance Among Curriculum, Teaching, and Assessment (Romance Project)



CRDG, in collaboration with the Stanford Education Assessment Laboratory at Stanford University, continues to work on a National Science Foundation funded study to improve learning for middle-school science students. The *FAST* curriculum is being used to study ways to strengthen the link between content, teaching, and assessment.

This project includes a feasibility study to develop a framework for linking science achievement with methods for assessing different aspects of achievement. The framework is then used to create a set of assessments, both formative (embedded within a unit) and summative (end of unit) for a sequence of investigations from *FAST*. If the framework and methods have a positive effect on teaching and learning, a full-scale research and development effort will be conducted.



Using Hawai'i's Unique Biota for Biology Education GK-12



Students in the Summer Science Enrichment program spend most of the time in each course conducting laboratory or field investigations.

Generally referred to as the GK-12 project, this is a joint effort of CRDG and the faculty of the Ecology, Evolution, and Conservation Biology (EECB) program at UH Manoa. Selected EECB graduate students receive a fellowship paid through a National Science Foundation grant to work in K-12 education. The program focuses on improving the fellows' communication skills, upgrading classroom teacher content knowledge about Hawai'i's endangered environments, and reducing the time between generating new knowledge in science and influencing student learning in classrooms. CRDG faculty provide the education component of the fellows' preparation, and work with them to engage students and teachers in inquiry investigations related to research each fellow is pursuing. In 2003, ten graduate students completed their education component training at the ELS.

The Rise of Modern Japan

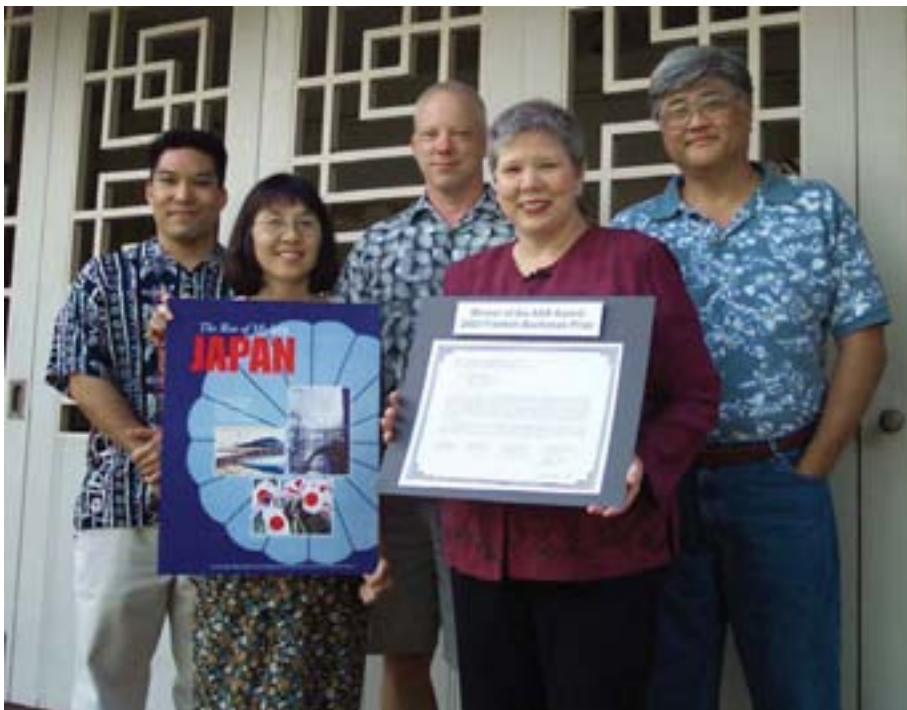
The CRDG social studies section completed research and development of *The Rise of Modern Japan*, a high-school text jointly published with the University of Hawai'i Press. The book traces key aspects of Japan's history and culture from 1600 to the present. The activity-centered text is replete with maps, timelines, archival photos, literary excerpts, first-person accounts, songs, poems, charts, graphs, and political cartoons that give students a feel for the culture and events of the intervening centuries. The book received the 2003 Franklin Buchanan Prize from the Association for Asian Studies. *The Rise of Modern Japan* follows a companion volume on China, and anticipates a planned book on the history and culture of East Asia.

Highlights

- ▼ *The Rise of Modern Japan*, a high-school text with a teacher manual and music CD, won the Buchanan Prize from the Association for Asian Studies.
- ▼ *Island Fire*, published both as a high school text and trade book for general distribution, won the Ka Palapala Po'okela award for Excellence in Literature from the Hawai'i Book Publishers Association.
- ▼ *Cross Currents*, a binational, bilingual, interactive digital web resource in English and Japanese, continues to foster extended dialogue and information exchange among students and teachers from both countries.

"*The Rise of Modern Japan* is an outstanding contribution to the study of Japan and to the field of Asian studies at the secondary level and serves as a brilliant example of how university and K-12 educators can work together to further the field of Asian studies."

-Association for Asian Studies



Left to right: Authors Chance Gusukuma, Eileen Tamura, Noren Lush, and Linda Menton; and book designer Wayne Shishido.

Highlights

- ▼ CRDG, in collaboration with the GoForBroke Foundation and the Hawai'i Department of Education, is developing an interactive supplementary curriculum based on Japanese American soldiers' experiences in World War II. These materials relate to the HIDOE character education curriculum.
- ▼ The Social Studies Section is exploring the development of a new high-school history text on East Asia.
- ▼ The Art Section is developing new courses in fiber arts, drawing, and sculpture and ceramics with a Hawai'i, Asia, and Pacific focus.

Cross Currents

Cross Currents is a binational, bilingual digital web resource that covers the last 50 years of Japanese and United States history and the "cross currents" between the two countries. CRDG is developing the resource in collaboration with the UH College of Social Sciences and the Japan United States Friendship Commission. The Website provides an interactive database in both English and Japanese that can be accessed by students and teachers in both countries to foster extended dialogue and information exchange.

Excerpt from "Apples and International Friendship"

[In the years immediately following World War II], the image of bright red apples cheered up Japanese people with an immensely popular "Song of the Apple." Half a century later, this experience led volunteer groups to plant apple trees, appropriately named "Apple of Hope" in areas devastated by the Great Kobe Earthquake in 1995. The Japanese volunteers plan a similar planting campaign in New York City for the surviving families of the victims of the 9/11 terrorist attack. Apples thus have a long history of crossing the Pacific carrying a spirit of hope and goodwill.

-The Cross Currents Website

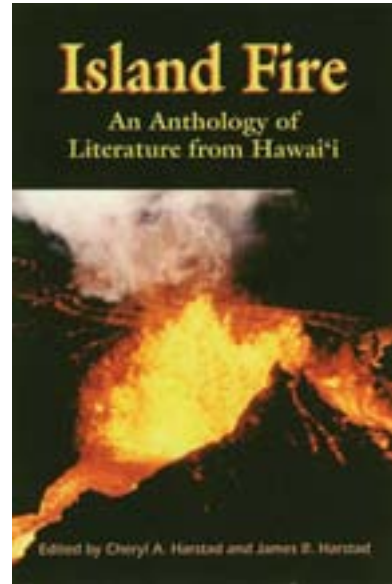


Island Fire

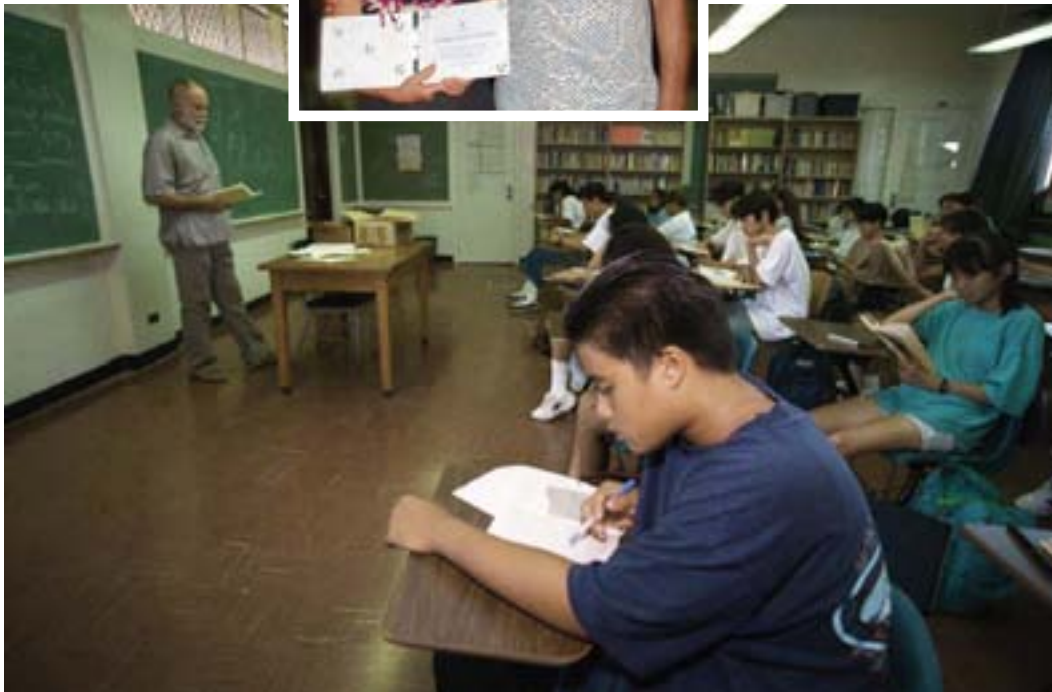
CRDG, in collaboration with the University of Hawai'i Press, published *Island Fire*, an anthology of forty-five folk tales, legends, chants, myths, short stories, and poems from Hawai'i. The book is published both as a high-school text and a general trade book available in local bookstores. In November 2002, following its release, *Island Fire* was listed as No. 8 on the local best sellers list. In 2003, *Island Fire* won the Ka Palapala Po'okela award for Excellence in Literature.

"It is this dichotomy, this true and inclusive diversity, that is the strength of the anthology. As a book, Island Fire might be more genuinely 'melting pot' than most of its local shelfmates."

-a review in Honolulu Weekly



Cheryl and James Harstad, editors of *Island Fire*, won the Ka Palapala Po'okela Award for Excellence in Literature from the Hawai'i Book Publishers Association. In the picture below, Jim reads aloud to students.



Highlights

- ▼ *Pihana Nā Mamo* has worked with Hawai'i schools for over thirteen years to identify, develop, and implement effective programs to improve educational outcomes for K–12 special needs students of Hawaiian or part-Hawaiian ancestry.
- ▼ The Laboratory School increased its enrollment of special needs students this school year.

Pihana Nā Mamo: The Native Hawaiian Special Education Project

Since 1990, *Pihana Nā Mamo*, a joint project with the Hawai'i Department of Education, has worked with Hawai'i schools to identify, develop, and implement effective programs to meet the unique needs of students in the project. Its mission is to improve educational outcomes of K–12 special needs students of Hawaiian or part-Hawaiian ancestry. The project emphasizes developing (a) beginning reading skills, (b) positive behavior support, and (c) family and community participation. These initiatives have resulted in reading programs in 32 schools serving large numbers of Hawaiian and part-Hawaiian students, statewide adoption by the Hawai'i Department of Education of a positive support model, and parent/community involvers in 21 schools throughout the state.

The current 5-year project cycle, which started in 2000, is developing and expanding these major components:

- ▼ *Heluhelu*, which targets the development of key beginning reading skills in K–3 students and provides intensive interventions for upper elementary and secondary students falling below key reading benchmarks.
- ▼ *Kāko'o*, a pro-social and culturally appropriate support system for secondary students at risk for school failure and dropout.
- ▼ *Makua Hānai*, an outreach program to encourage and support parent and community participation in the education of Hawaiian and part-Hawaiian children.
- ▼ Curriculum and material adaptations to meet the cultural needs of Hawaiian and part-Hawaiian students and their families.
- ▼ Multimedia documentation as part of a comprehensive evaluation of the program's effects.

School Assisted Interactive Learning (SAIL)

The Learning Technology Section led a three-university consortium to research and develop online courses for high school algebra, AP English, and marine biology, and provide overall project evaluation for the Department of Defense Education Activity schools worldwide. Other initiatives led by consortium members Mississippi State University and Indiana University of Pennsylvania include a learning management system evaluation, an evaluation instrument for online courses, supplementary online courses in mathematics and reading, an online professional development program in the area of gifted and talented, and an online high-school course in presentations and publications.

School Safety Project

This joint effort with the George Washington University (GWU) served Department of Defense Education Activity (DoDEA) schools worldwide. Project activities included researching and developing six one-month online seminars on school safety issues, an evaluation of the DoDEA Safe Schools Program, archiving documents and discussions posted on the project website, and producing a CD and DVD of video interviews and written materials. A database of 15,086 citations of reports, articles, books, and other publications dealing with school safety was made available to DoDEA and GWU and will be available for UH personnel.

Archimedes Project

The Archimedes Project is dedicated to research and development of technologies to solve accessibility and communication problems related to disability, aging, education, literacy, lack of infrastructure, and limited resources. The project is developing an adaptive intelligent educational technology (IDEAL—Intent Driven Environment for Active Learning). The integration of computer assisted hands-on activities will allow students with special needs unprecedented access to understanding science and mathematics. The goal is to assure that all children have equal opportunity and the education required for entering technical and scientific careers in the future.

Highlights

- ▼ *School Assisted Interactive Learning*, a three-university consortium was formed to research and develop online courses such as high school algebra, AP English, and high-school marine biology for the Department of Defense Education Activity.
- ▼ The *School Safety Project*, funded through a subcontract from George Washington University from a contract with the Department of Defense Education Activity, included a database on CD-ROM and publications dealing with school safety.
- ▼ The Learning Technology Section published a qualitative evaluation software called *Qualifiers: The Educators' Organizer*.
- ▼ The Science Section developed innovative uses of technology in distance learning by providing virtual field trips to students interested in education programs in the College of Tropical Agriculture and Human Resources and education.
- ▼ The Science Section, in collaboration with researchers from Purdue University, developed the *Adolescent Bone Health Module* using interactive CDs.
- ▼ The Learning Technology Section developed and maintained local and national education web-accessible databases including the Hawai'i Watersheds database, the *Pihana Nā Mamo* database, the *School Web of Instructional Media* database, the *Romance Project* database, the CRDG Website databases, the NSF K-12 Graduate Fellows database, and the College of Education productivity database.

Highlights

- ▼ CRDG staff is establishing a worldwide network of scholars and educational leaders to build better systems that link the areas of systematic thinking, educational policy, and effective practices.
- ▼ ELS continues to serve as an experiment of an educational model that maximizes opportunities for all children and youth through better curriculum, instruction, and staff development.
- ▼ ELS consistently has a 100% graduation rate with over 95% of its graduates typically continuing to post-secondary education.



Jane Burke, a former principal and superintendent from North Carolina, became the ELS principal in January 2003.

The Education Laboratory School

The Education Laboratory: A Hawai'i New Century Public Charter School is in its third year as a public charter school. However, it is unique among schools in many respects.

It is operated by CRDG as a K–12 laboratory for researching, designing, testing, and evaluating effective approaches to improving learning, teaching, and assessing.

The student population is randomly selected from among applicants to represent a broad cross section reflecting the state population distribution of gender, school-level accomplishment, family income, and ethnicity.

All students are in school for 7.5 hours a day, and take a challenging comprehensive curriculum that includes English, mathematics, science, social studies, art, music, drama, and athletics, as well as electives each year. The school has no tracking of students. All take the identical core program in non-segregated classes. All students graduate college ready.

The curriculum is built on multi-year sequences of learning, which emphasize creativity, inquiry, problem-solving, and active learning. In most cases, students and teachers are using CRDG-developed programs and approaches. The school serves as a demonstration site, hosting observers, researchers, and educators-in-training.

During 2003, visitors to ELS included

- ▼ over 500 educators and students from Nishinippon High School and Sohseikan High and Middle School, our two sister schools in Japan.
- ▼ 22 Lanakila Elementary School teachers, 6 Honolulu District Office Resource Teachers, and educators from Singapore to observe *Measure Up* in grades 1 and 2.
- ▼ 2 Singapore mathematics instructors from Ngee Ann Polytechnic Institute to observe grades 6–8 classes.
- ▼ 3 Hawai'i state mathematics specialists to observe the grades 6–10 mathematics classes.
- ▼ 7 New Jersey Charter School teachers to observe the elementary *Measure Up* classes.

Designing Educational Systems

- ▼ 24 pre-service teachers who completed all or part of their observation/participation requirements at ELS.
- ▼ 2 pre-service teachers who completed their student teaching requirement at ELS.
- ▼ 10 graduate students in Ecology, Evolution, and Conservation Biology at UH who completed the Graduate Students in K–12 Education training at ELS.



ELS grade 7 students, using information from the Watershed database, won first place in the Watershed Model Contest for Make-a-Difference Day. The event was sponsored by Protect the Planet and the City and County of Honolulu.

Highlights

- ▼ In 2002 and 2003, ELS students had among the highest scores in the state on the Hawai'i Content and Performance Standards assessments in reading and mathematics for grades 8 and 10.
- ▼ ELS students won first, second, and third place awards in the statewide Hawai'i Education Association writing contest.
- ▼ Two students placed on the National Honor Roll in the American Mathematics Competitions.
- ▼ Three students won recognition at the National Scholastic Art Awards; one student received first place nationally for his pastel painting.

ELS Local School Board 2003

Student Representatives

Jace Hieda
Jennifer Tadena

Parent Representative

Dawn Chang

Faculty Representative

Matthew Miller, CRDG

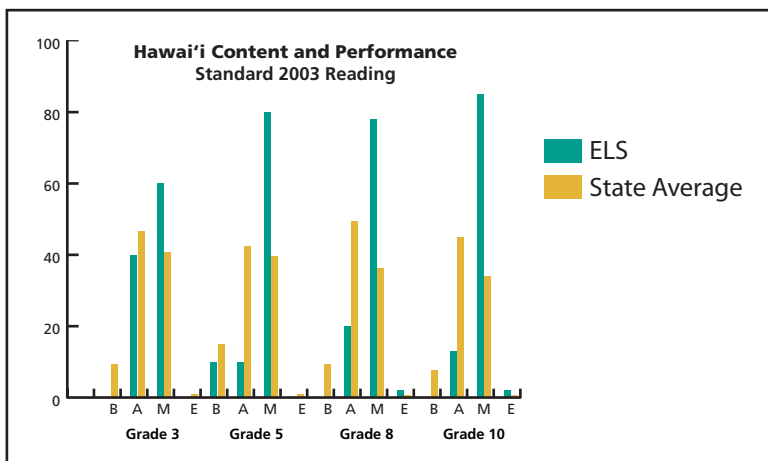
Community Representatives

Barbara Dougherty, CRDG,
David Ericson, College of Education
Donna Estomago, Lanikai
Elementary School
Marlene Hapai, College of Tropical
Agriculture
Charles Khim, Attorney
Loretta Krause, Retired
Francis M. Pottenger, CRDG
Thomas W. Speitel, CRDG
Eileen Tamura, College of Education
David Wilson, McNeil Wilson
Communications

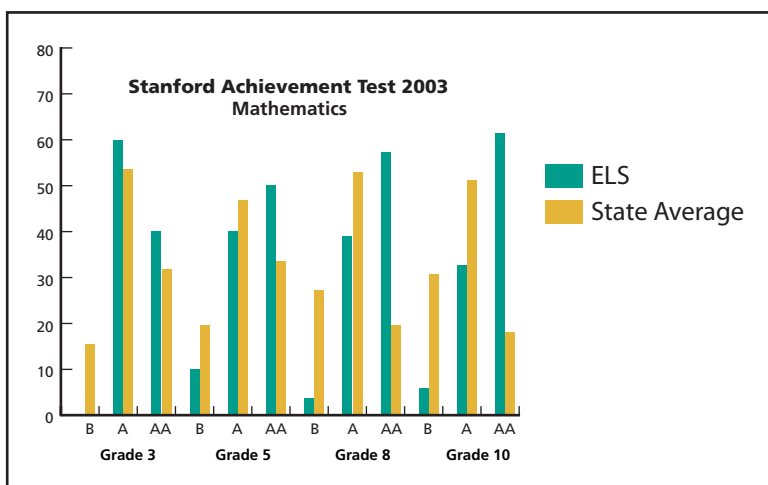
Highlights

- ▼ Fourteen students were selected for the Hawaii Youth Symphony; 1 as first chair, and 1 a concertmaster.
- ▼ Nineteen students were selected for the Oahu Band Directors Select Band; 1 achieved first chair.
- ▼ ELS students played on approximately 30 teams in 14 sports. Three students earned ILH first team honors; 6 earned ILH second team honors.
- ▼ ELS students participated in Math Counts, State Math Bowl, Ocean Science Bowl, Hawai'i State Science and Engineering Fair, Model United Nations, and Hawai'i State Student Council.
- ▼ Twenty-four students competed in Hawai'i Speech League tournaments; 10 students qualified for the state championship finals; 5 were State finalists; 1 was State champion; 1 qualified for the National championship.

Results on standardized tests for the Laboratory School compared with the Hawai'i state average scores in reading and mathematics for SY 2003 are shown in the following graphs.



Laboratory School compared with the Hawai'i state average on Percent of Students Below Proficiency (B), Approaching Proficiency (A), Meeting Proficiency (M), and Exceeding Proficiency (E) on the 2003 Hawai'i Content and Performance Standards Test



Laboratory School compared with the Hawai'i state average on Percent of Students Below Average (B), Average (A), and Above Average (AA) on the 2003 Stanford Achievement Test

CRDG SCHOLARSHIP

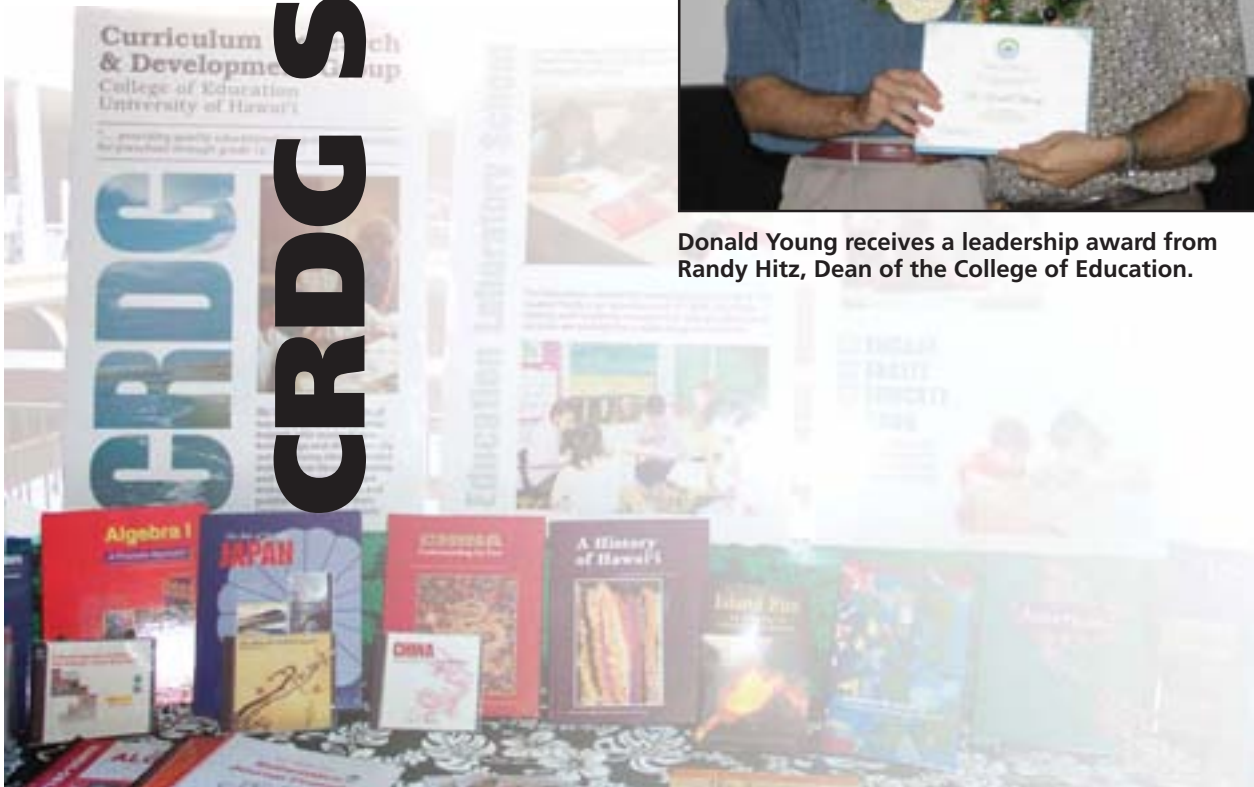
Highlights

While maintaining a high productivity in research and development, CRDG faculty and staff excelled in areas including professional publications, presentations, and training grants and contracts.

- ▼ 41 professional publications
- ▼ 14 videos/software products
- ▼ 27 presentations at national/international professional meetings
- ▼ 36 presentations at state/regional professional meetings
- ▼ \$10 million in contracts and grants



Donald Young receives a leadership award from Randy Hitz, Dean of the College of Education.



Peer Reviewed Journal Articles

Berg, K. F., & Lai, M. K. (Eds.). (2003). *Pacific Educational Research Journal*, 12(1).

D'Ambrosio, B., DeLoach, I., Grouws, D., Hala, M., & Resy, R. (2003). Educational research in the No Child Left Behind environment. *Journal for Research in Mathematics Education*, 34(3), 185–190.

Lai, M. K., Saka, S. M., & Kelly, T. (2003). A comparison of Hawaiian high school students' and non-Hawaiian high school students' responses related to tobacco. *Pacific Educational Research Journal*, 12(1), 91–100.

Pateman, B., Lai, M. K., & Saka, S. M. (2003). Positive directions in Hawai'i's adolescent health risk behaviors, school health policies, and school health education programs. *Pacific Educational Research Journal*, 12(1), 57–90.

Books/Media Published

Dougherty, B., Matsumoto, A., & Zenigami, F. (2003). *Explorations in algebra: Hands-on lab activities*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Dougherty, B., & Burstein, J. (2003). *X-Power interactive: Student manual*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Dougherty, B., & Burstein, J. (2003). *X-Power interactive: Teacher manual*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Dougherty, B., Okazaki, C., & Zenigami, F. (2003). *Measure up: Grade 1*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Dougherty, B., Okazaki, C., & Zenigami, F. (2003). *Measure up: Grade 2*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Dougherty, B., Okazaki, C., & Zenigami, F. (2003). *Measure up: Grade 3*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Harstad, C., & Harstad, J. (2003). *Island fire teacher's guide*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Menton, L. K., Lush, N., Tamura, E., & Gusukuma, C. (2003). *The rise of modern Japan*. Honolulu: University of Hawai'i, Curriculum Research & Development Group and the University of Hawai'i Press.

Menton, L. K., Lush, N., Tamura, E., & Gusukuma, C. (2003). *The rise of modern Japan teacher manual*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Slovin, H., Venenciano, L., Ishihara, M., & Beppu, C. (2003). *Reshaping mathematics for understanding: Getting started*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Slovin, H., Venenciano, L., Ishihara, M., & Beppu, C. (2003). *Reshaping mathematics for understanding: Measurement*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Slovin, H., Venenciano, L., Ishihara, M., and Beppu, C. (2003). *Reshaping mathematics for understanding: Motion geometry*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Speitel, T. (2003). *Qualifiers*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Chapters in Books

Coggeshall, M. B., Kingery, P. M., & Berg, K. F. (2003). Improving the accuracy of school violence surveys. In Furlong, Bates, Smith, & Kingery, (Eds.), *Appraisal and prediction of school violence: Methods, issues, and context*. Hauppauge, NY: NovaScience Publishers.

Kingery, P. M., Coggeshall, M. B., & Berg, K. F. (2003). Examining the incidence of weapon carrying in America's schools. In Furlong, Bates, Smith, & Kingery, (Eds.), *Appraisal and prediction of school violence: Methods, issues, and context*. Hauppauge, NY: NovaScience Publishers.

Other publications

Afaga, L. (2003). *The Hawai'i graduate teaching fellows in K–12 science education program (GK-12) 2003 evaluation report*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Brandon, P. R., & Doktor, R. H. (2003). *Review of the ocean and resources engineering program at the University of Hawai'i at Mānoa*. Honolulu: Graduate Council of the Graduate Division, University of Hawai'i at Mānoa.

Brandon, P. R., & Lee, M. D. (2003). *The physics, physiology, and technology project: Results on pre/post tests and post-project attitude surveys* (Report No. 2002-03/3). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Brandon, P. R., Zeng, Q., & Higa, T. A. F. (2003). *An internal formative evaluation report on the school assisted interactive learning project at the University of Hawai'i at Mānoa* (Report No. 2002-03/1). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Brandon, P. R., Haynes, R. L., Shavelson, R., Young, D. B., Ayala, C., Pottenger, F. M., Tomita, M., Scarlett, T., Feldman, A., & Ruiz-Primo, A. (2003). *Description of the National Science Foundation project, "Embedding Assessments in the FAST Curriculum"* (An ongoing report of the National Science Foundation grant No. ESI-0095520). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Dougherty, B., & Zilliox, J. (2003). *Voyaging from theory to practice in teaching and learning: A view from Hawai'i. Proceedings of the 2003 Joint Meeting of PME and PMENA.* Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Higa, T. A. F. (2003). *A year-3 report of an internal formative evaluation of the Pihana Nā Mamo project administration, curricula and materials, and database management and evaluation components.* Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Lee, M. D., & Brandon, P. R. (2003). *The development of the physics, physiology and technology project* (Report No. 2002-03/2). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Menton, L. (2003). *An evaluation of K-12 educational materials developed by the Center for Southeast Asia Studies at the University of Hawai'i.* Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Menton, L. (2003). *The Hilo boarding school photograph collection at Lyman Museum.* Hilo: The Lyman Museum and the Hawai'i Council for the Humanities.

Menton, L. (2003). *The Farrington high school class of 1959.* Honolulu: Oral History Recorder, XX, 1-4.

Nguyen, T. T., & Lai, M. K. (2003). *School safety project: CRDG internal evaluation report.* Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Pateman, N. A., Dougherty, B., & Zilliox, J. (Eds.). (2003). *Proceedings of the 2003 joint meeting of PME and PMENA (Vol. 1, 2, and 3.)* Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Picard, A. J., & Young, D. B. (2003). *Methods: teaching and learning principles. Hana hou: Outstanding articles in applied research from the Kamehameha Journal of Education 1990-1995.*

Sjostrom, M. P., & Olson, M. (2003). *Effects of Measure Up on area conservation. Proceedings of the 2003 joint meeting of PME and PMENA.* Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Smith, D. C., Langford, R. A., & Berg, K. F. (2003). *Gang prevention and resistance* (School Brief 5, School Safety Project). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Smith, D. C., Langford, R. A., & Berg, K. F. (2003). *Teaching tolerance to prevent hate and violence in schools* (School Brief 6, School Safety Project). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Smith, D. C., Langford, R. A., & Berg, K. F. (2003). *Teaching life skills to promote safe schools* (School Brief 7, School Safety Project). Honolulu: University of Hawai'i, Curriculum Research & Development Group.



Almost 80 students participated in the 2003 CRDG Summer Programs for grades 4-12. Course offerings in science, mathematics, and computer and media technology focused on engaging students in learning through explorations and technology.

Smith, D. C., Langford, R. A., & Berg, K. F. (2003). *Parent involvement in violence prevention at school* (School Brief 8, School Safety Project). Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Speitel, T. (2003). *Final report of the school assisted interactive learning (SAIL) project*. Honolulu: University of Hawai'i, Curriculum Research & Development Group.

Speitel, T. (2003). An online community: the Department of Defense Education Activity (DoDEA) and the University of Hawai'i. *Educational Perspectives*, 35(2), 9-12.

Young, D. B. (2003). *A quarter century of curriculum dissemination: cases, issues, and theories*. Honolulu, HI: Proceedings, Kamehameha Schools Research Conference on the Education and Well-Being of Hawaiians.

Grants and Contracts

Berg, K. F. Department of Defense Education Activity. School Safety and Violence Prevention Project. With George Washington University. \$1,225,000. 2002–2003.

Brandon, P. R. Evaluation of the Hawai'i Department of Education Windward Community Learning Center. \$33,000. 2002–2003.

Brandon, P. R. Hawai'i Department of Education. Evaluation of the Waianae Community Learning Center. \$29,535. 2003.

Brandon, P. R. Hawai'i Department of Education. Evaluation of the Leilehua Community Learning Center. \$24,000. 2003.

Brandon, P. R. Hawai'i Department of Education. Evaluation of the School Assessment Liaison Program. \$29,063. 2003–2006.

Brandon, P. R. Hawai'i Alliance for Arts Education. Arts First Project. \$315,516. 2003–2006.

Brandon, P. R., & Young, D. B. National Science Foundation. Phase I Study of the Effects of Professional Development and Long-term Support on Program Implementation and Scaling Up. \$976,497. 2003–2005.

Dougherty, B., & Pottenger, F. U.S. Department of Education. Professional Development Program: An Inquiry-Based Approach to Mathematics and Science. \$125,612. 2002–2003.

Dougherty, B. U.S. Department of Education. Pacific Mathematics and Science Regional Consortium. \$159,557. 2002–2003.

Dougherty, B. U.S. Department of Education. Inquiry-based Approach to Mathematics. \$67,831. 2002–2003.

Dougherty, B. U.S. Department of Education. Measure Up: Leaving No Teacher Behind. \$59,876. 2003–2004.

Lai, M. K. U.S. Department of Education. Pihana Nā Mamo: The Native Hawaiian Special Education Project. \$12,589,200. 2000–2005.

Lai, M. K., & Lam, S. Pacific Resources for Education and Learning. Evaluation of PRELs Native Hawaiian Safe and Drug Free Schools Project. \$18,800. 2002–2003.

Menton, L. U. S. Department of Education, International Research and Studies Program. Curriculum Materials on Japan Publication Grant. \$136,000. 2001–2003.

Menton, L. Japan-United States Friendship Commission. \$57,500. 2002–2003.

Pottenger, F. M. U. S. Department of Agriculture. Improving Bone Health in Adolescence through Targeted Behavioral Intervention. \$245,830. 2000–2003.

Pottenger, F. M. U. S. Department of State. Civic Education for the Information Age. \$99,994. 2001–2003.

Saka, S. Hawai'i Department of Education. High School Youth Risk Behavior Survey. \$24,500. 2002–2003.

Saka, S. Hawai'i Department of Health. Hawai'i Health Survey Pamphlet. \$5,000. 2002–2003.

Saka, S. Hawai'i Department of Education. Hawai'i School Health Surveys. \$130,000. 2003–2004.

Saka, S. Hawai'i Department of Health. Hawai'i Nutrition Education and Training. \$47,180. 2003–2004.

Southworth, J. U. S. Department of Agriculture. With UH College of Tropical Agriculture and Human Resources. \$159,648. 2001–2003.

Speitel, T. W. U. S. Department of Defense. School Assisted Interactive Learning. \$2,900,000. 2002–2003.

Young, D. B. Hawaii Association of Independent Schools. Studying the Teacher Shortage Situation in Hawai'i. \$27,250. 2003–2004.

Young, D. B. Hawai'i Department of Education. Education Laboratory School: A Hawai'i New Century Public Charter School. \$1,373,605. 2002–2003.

Young, D. B. Hawai'i Department of Education. Education Laboratory School: A Hawai'i New Century Public Charter School. \$2,067,123. 2003–2004.

Young, D. B. National Science Foundation. With Stanford University. Embedding Assessments in the FAST Curriculum. \$308,672. 2001–2003.

Young, D. B. University of Hawai'i. Physics and Mathematics Instruction in Hawai'i. \$99,250. 2002–2003.

Young, D. B. National Science Foundation. Using Hawai'i's Unique Biota for Biology Education. With UH Center for Conservation Research and Training. \$1,422,768. 1999–2003.

Young, D. B. National Science Foundation. Using Hawai'i's Unique Biota for Biology Education in GK-12. With UH Center for Conservation Research and Training. \$1,482,270. 2003–2006.

Awards and Recognitions

Artists Matt Miller and Doug Doi both had work selected for the Windward Artists Guild 43rd Open Juried Exhibition.

Artist Waldtraut (Val) Krohn-Ching was recognized as Outstanding Educator by the Scholastic Art and Writing Awards.

Mathematics educator Barbara Dougherty was appointed to chair the National Council of Teachers of Mathematics Research Committee.

Social studies educators Linda Menton and Noren Lush received the 2003 Franklin Buchanan Prize for *The Rise of Modern Japan* from the Association for Asian Studies.

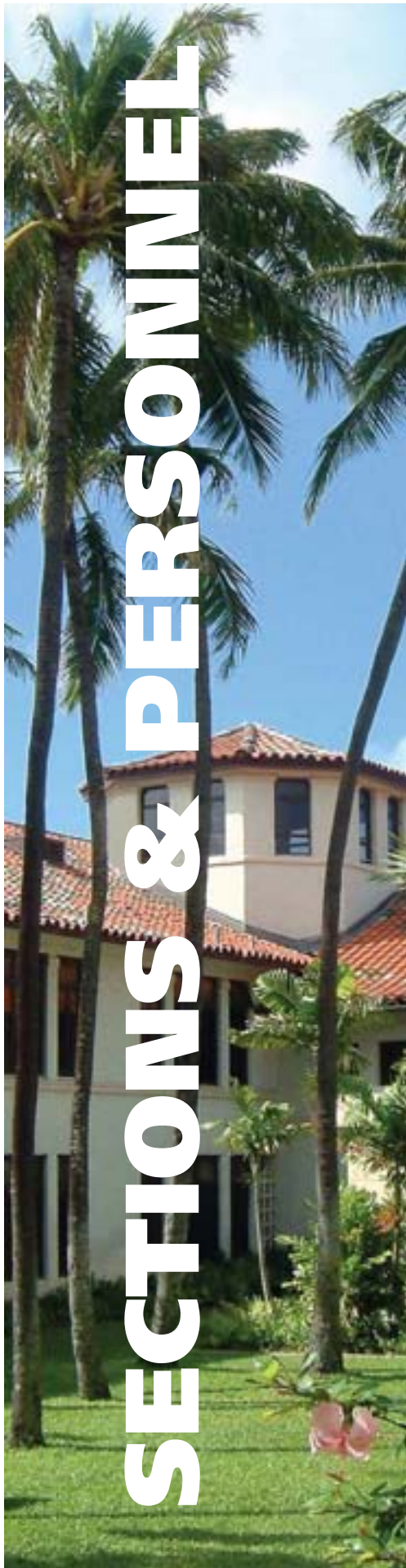
Social studies teacher Suzanne Acord was recognized as an outstanding Global Educator by the Hawai'i State Senate and House of Representatives.

Education specialist Susan Saka received the Volunteer Excellence Award at the 2002 Western Regional 4-H Leaders Forum.

Distance learning educator John Southworth was the Streete Visiting Scholar in Distance Learning at the University of North Texas.

Island Fire, a joint publication with UH Press, reached number 8 on the local Hawai'i best seller list.

ELS students ranked first on the Hawai'i Content and Performance Standards statewide achievement tests in reading and mathematics in grades 8 and 10.



CRDG Organizational Chart

College of Education

Randy Hitz, Dean

▼ Curriculum Research & Development Group

Donald B. Young, Director

Kathleen Berg, Associate Director

Nancy Fujii, Secretary

▼ Administrative Officer

Sheryl Nohara

▼ Assistant to Director

Diane Witt

▼ Products and Services

Kathleen Berg

Editing, Manuscript Preparation,
Printing, Publication, Warehousing,
Marketing & Dissemination

▼ Research and Development Sections

Laboratory School

Jane Burke, Principal

Audrey Maedo, Secretary

Science

Francis M. Pottenger

Social Studies

Linda Menton

Art

Val Krohn-Ching

Systems

Arthur R. King

Mathematics

Barbara Dougherty

Learning Technologies

Thomas W. Speitel

English

Cheryl Harstad

Evaluation

Morris K. Lai

Special Projects/RCUH

Diane Witt

Acord, Suzanne
Social Studies
BA 1996, St. Edward's; MA 2003, Hawai'i

Afaga, Lorna
Evaluation
BA 1977, MPH 1981, Hawai'i

Alvarez, Patricia
Social Studies
BA 1966, Minnesota; MA 1981, PhD 1994,
Hawai'i

Apio, Marlon
Foreign Language
BA 1998, Hawai'i

Asato, Darrell
Products and Services
BFA 1979, Hawai'i

Baumgartner, Erin
Science
BA 1996, Kansas; PhD 2002, Hawai'i



Dr. Arthur R. King, Jr., founder and director of CRDG, began his tenure at the UH as a member of the College of Education research faculty. Along with William Savard, Art was co-director of the Hawaii Curriculum Center, which later became CRDG. His depth and breadth of knowledge and leadership, along with his vision for creating and sustaining a university-based R&D center using a real-time school as a laboratory is the very foundation of CRDG's success. Art's belief in and commitment to a quality liberal education for all sustained CRDG through economic and political challenges. The result is a curriculum R&D center recognized internationally for the quality of its research, products, and services that have served thousands of teachers and millions of students.

Berg, Kathleen F.
Administration
BEd 1973, PD 1973, MEd 1980, PhD 1992,
Hawai'i

Bombeke, Kika
Foreign Language
BA 1992, Maryland at College Park,
MA 2001, Hawai'i

Brandon, Paul R.
Evaluation
BS 1970, Portland State; MEd 1978, PhD
1983, Hawai'i

Brennan, Carol A.
Science
BA 1965, Catholic University of America;
MS 1984, Nebraska; EdD 1996, Hawai'i

Buchholz, Donald
Science
BA 1968, MA 1970, UC Berkeley

Bukes, James G.
Athletics
BEd 1974, MEd 1985, Hawai'i

Burke, Jane
ELS Principal
BS 1968, Campbell U; MA 1977, North
Carolina at Chapel Hill

Carpenter, Stacey
Science
BS 2002, Hawai'i

Chan, Raymond
Mathematics
BS 2002, Hawai'i

Chang, Nancy
Cafeteria
BS 1973, UC Berkeley

Chin, Mary
Performing Arts
BA 1976, Mars Hill; MFA 1980, North
Carolina at Greensboro; PhD 1995, Hawai'i

Chun, Malcolm
Pihana Nā Mamo
BA 1976, MA 1981, Hawai'i

Clark, Robin
Pihana Nā Mamo
BA 1994, Hawai'i

Collins, Marie
Science
MS 1996, Massachusetts

Condamoor, Shantha
Learning Technologies
BS 1985, Madras India; MS 1987, Madras India; MS
1990, Texas Dallas

DaSilva, Maria
Elementary
BA 1990, Antioch

- Doi, Douglas M.
Art
BA, BFA 1976, MFA 1983, Hawai'i
- Dougherty, Barbara
Mathematics
BSE 1982, MA 1985, Northeast Missouri State;
PhD 1989, Missouri
- Doyle, Craig K.
Elementary
BA 1972, PD 1989, MEd 2002, Hawai'i
- Drick, George R.
English
BA 1966, Yale; MAT 1971, Harvard;
MBA 1978, Chicago
- Dunn, Hugh
Pihana Nā Mamo
BEd 1990, MEd 1999, Hawai'i
- Estomago, Pete
Athletics
BA 1967, Chaminade; MEd 1998, Hawai'i
- Fordham, Cecilia
Learning Technology
BS 1959, SUNY Fredonia; MFA 1976, Hawai'i
- Fujii, Alycia
Products and Services
BA 1996, Hawai'i
- Fujii, Nancy
Administration
BA 1979, Hawai'i
- Gabrielli, Sandy
Learning Technologies
BS 1990, Nevada, Reno
- Gill, Kevin
Learning Technologies
2000, California Regional Occupational Programming
Information Technology Training Series, Fremont, CA
- Gray, Mary E.
Science
BS 1986, Oregon; PD 1990, MEd 1991,
Hawai'i
- Hamasaki, Gayle
Products and Services
BEd 1979, MLS 1981, Hawai'i
- Harpstrite, James J.
Social Studies
BA 1963, Colorado; MA 1967, Hawai'i;
PhD 1971, Michigan State
- Harstad, Cheryl A.
English
BA 1967, MA 1970, Hawai'i
- Harstad, James
English
BA 1963, Washington; MA 1974, Hawai'i
- Hartle, Alison
English
BA 1992, UC Berkeley; MA 1996, Hawai'i
- Hashimoto, Val
Science
BS 1993, HPU; MAEd 2003, U Phoenix
- Higa, Terry Ann
Evaluation
BEd 1977, MEd 1978, MEd 1994, Hawai'i
- Inouye, Byron
Learning Technology
BFA 1993, Hawai'i
- Kelsey, Deborah Mary K.
Music
BEd 1983, Hawai'i
- Kerr, Rachel
Elementary
- Kido, Lillian
Pihana Nā Mamo
BA 1971, Hawai'i
- King, Arthur
Administration
BA 1946, Washington; MA 1950, EdD 1955,
Stanford
- Kleinjans, David
Science
BA 1972, Hawai'i
- Krause, Loretta
Administration
BA 1960, Minnesota; MA 1961 Nebraska;
EdD 1969, South Dakota
- Krohn-Ching, Waldtraut L.
Art
BS 1968, MA 1969, Eastern Michigan;
MFA 1974, Hawai'i
- Lai, Morris K.
Evaluation
BS 1965, Stanford; MA 1967, Hawai'i;
PhD 1972, UC Berkeley
- Lawton, Brian
Evaluation
BA 2001, Nevada
- Levinson, Richard
Learning Technologies
B.S. in Computer Science, 1984, Tulane School of
Engineering
- Lush, Noren
Social Studies
BEd 1974, Franklin College; MA 1988, Hawai'i
- Maedo, Audrey
ELS Administration
AS 1970, KCC Hawai'i
- Marino, Tara
Elementary
BA 2001, Washington State at Pullman
- Menton, Linda K.
Social Studies
BA 1968, Chaminade; MLS 1972, MA 1978,
PhD 1982, Hawai'i

Miller, Matthew
 Art
 BFA 1984, Hawai'i; MFA 1991, Oregon

Murchison, Sally
 Art
 BFA 1955, UCLA; MFA 1966,
 Hawai'i

Narimasu, Bert
 Products and Services
 BA 1976, MFA 1993, Hawai'i

Nohara, Sheryl
 Administration
 BA 1977, MEd 1997, Hawai'i

Nguyen, Thanh Truc T.
 Learning Technology
 BA 1996, MEd. 2000, Hawai'i

Oda, Yukari
 Foreign Language
 BA 1985, Junshin Women's College;
 BA 1997, Bryn Mawr; BA 1998, HPU

Okazaki, Claire
 Mathematics
 BA 1970, Washington State at Pullman



Elly N. Nielsen joined the CRDG in 1979 as an Educational Associate. She taught World History, British and European Literature, and Experimental Educational Skills focused on developing English language skills at the Laboratory School. Elly subsequently held positions as foreign language department chair, Career Kokua coordinator, and Assistant Administrator. Outside of school, Elly served as chair of the Teacher Education Committee on Hawaiian and Foreign Language, Senate Selection Committee, and as a member of the National Association of Secondary School Principals.

Olafsson, Kevin
 Music
 BM 1986, British Columbia

Pottenger, Francis M.
 Science
 BS 1951, Otterbein; MEd 1957, Xavier;
 MS 1964, New Mexico Highlands;
 PhD 1969, Claremont Graduate School

Pottenger, Larma
 Editing
 BA 1950, Otterbein

Quintan, Walter
 Athletics

Ragonton, Jonalyn
 Fiscal
 BBA 2003, Hawai'i

Ramos, Rosemarie
 Clerical
 AS 1976, St. Ferdinand

Rivera, Grant
 Cafeteria

Saka, Susan
 Evaluation
 BS 1980, MEd 1994, Hawai'i

Sakihara, Jean
 Foreign Language
 BA 1958 Jissen Women's University

Scott, Neil
 Learning Technologies
 BE 1970, Canterbury University, New Zealand

Shimabukuro, Sandra
 Science
 BS 1970, Hawai'i; MPH 1973, Michigan

Shiroma, Michael
 Technology
 AS 2002, HCC Hawai'i

Shishido, Wayne
 Products and Services
 BFA 1972, Hawai'i

Sjostrom, Mary Pat
 Mathematics
 BS 1972 Wright State; MA 1981, South Florida; PhD
 2000, Georgia State

Slovin, Hannah
 Mathematics
 BA 1966, Pennsylvania; MEd 1970, Temple; EdD
 1996, Hawai'i

Southworth, John H.
 Science
 BA 1961, Pomona; MA 1971, Hawai'i

Speitel, Thomas W.
 Learning Technology
 BS 1967, Manhattan College; PhD 1975, Hawai'i

Smith, G.G.
Athletics
BA 1999, Georgia; MA 2002, Kentucky

Smyslova, Olga
Learning Technologies
PhD Moscow State University, Russia

Soetoro, Maya
Social Studies
BA 1994, Hawai'i; MA 1996, NYU

Sosso, Paul
Learning Technology
BS 1988, Nebraska

Tamashiro, Joan
Mathematics
MA 2000, Hawai'i

Tau, Leah
Social Studies
BA 2001, Hawai'i

Taum, Alice
Evaluation
BA 1997, Chaminade

Teixeira, Tracy Lee
ELS Administration
BSW 1981, MSW 1983, Hawai'i

Teter, William C.
English
BA 1976, San Francisco; MA 1983, Hawai'i

Tomei, Ivan
Products and Services

Towata, Carolyn S.
BEd 1967, 5-Yr Diploma 1968, MEd 1968,
Hawai'i

True, James
Learning Technologies
BA 1995, Tennessee at Chattanooga

Venenciano, Linda
Mathematics
BA 1993, MAT 1994, Pacific U

Verbaken, Joop
Learning Technologies
HIO 1976, Eindhoven-The Netherlands

Ward, Lori
Editing
BA 1983, Hawai'i; MNM 2002, Regis

Witt, Diane S. McCoy
Music
BM 1972, Indiana; MEd 1981, Hawai'i

Wong, Ira
Music
BA 1988, Hawai'i

Yap, Mark
Pihana Nā Mamo
BA 2001, Hawai'i

York, Susan
Evaluation
BA 1992, MA 1994, MEd 2001, Hawai'i

Young, Donald B., Jr.
Administration
BS 1968, MS 1969, SUNY; EdD 1986, Hawai'i

Young, Stephen
Cafeteria

Zenigami, Fay
Mathematics
BEd 1974, PD 1975, MEd 1975, Hawai'i

Zorn, Chris
Music
BEd 1983, Hawai'i



Edith Kleinjans (standing) joined CRDG in 1967 as a member of the Hawai'i English Program developmental team. Later she served as team leader of the Secondary English Program. For the past 20 years, Edith was the managing editor for CRDG, supervising the preparation and production of every manuscript produced during that time. As CRDG editor, Edith is credited with vastly improving the quality, look, and readability of CRDG products.

Loretta Krause (sitting) served the university for 41 years, most of that as principal of the Laboratory School where she pursued quality with passion and commitment. Loretta is well known for her belief in the ability of all students to achieve at high levels in a comprehensive and challenging curriculum, and for making personal commitments and sacrifices to see that all were successful. She continues as a member of the charter school local board and as a consultant to CRDG.