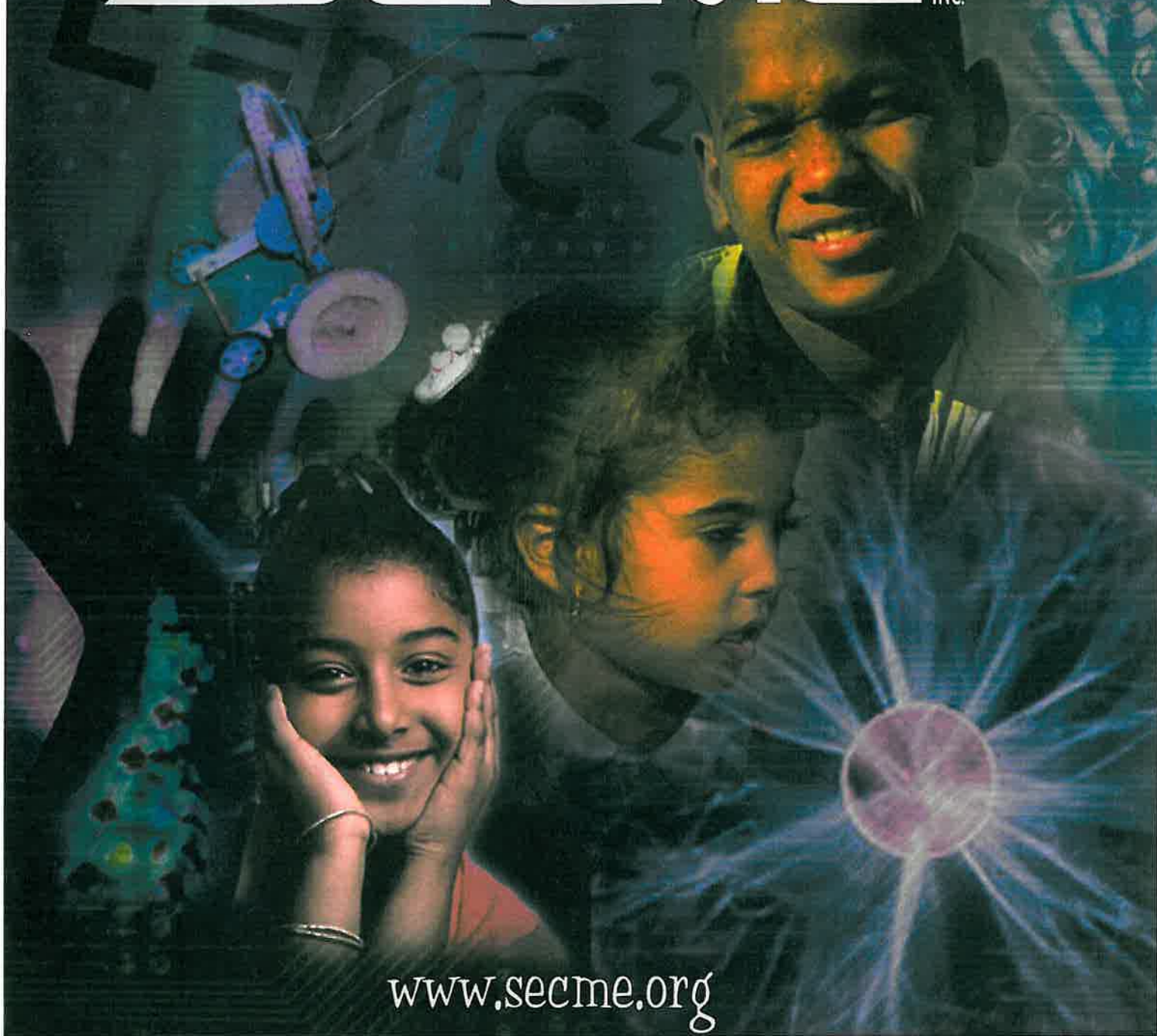


SECME INC.



www.secme.org



33rd Annual SECME Summer Institute



EMBRY-RIDDLE
AERONAUTICAL UNIVERSITY
College of Engineering



UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF EDUCATION

Hosted by Embry-Riddle Aeronautical University
Daytona Beach, FL
June 22 – 28, 2009

“SECME: Thinking Out of the Box for STEM Success”

The SECME Summer Institute provides K-16 educators, administrators, parents, and students innovative STEM (Science, Technology, Engineering and Mathematics) educational programs and professional development. SECME was established in 1975 by the Engineering Deans at seven Southeastern universities. Today the alliance extends to schools, universities, science- and technology-based industry, and public and private agencies in 17 states, the District of Columbia and Grand Bahamas. The Summer Institute brings all of our partners together to gain a greater understanding of what it will take to provide this generation of students with the STEM education necessary to become the workforce of tomorrow.

Curriculum for the SECME 2009 Summer Institute will be provided jointly by Embry-Riddle Aeronautical University, University of Central Florida College of Education, SECME Master Teachers, and SECME industry partners - tentatively including the Society of Automotive Engineers (SAE International), Pratt and Whitney, NASA, DuPont, and others.

TEACHER ACADEMY JUNE 22 –28

The Summer Institute offers K-12 educators a rich, rigorous, and extensive menu of graduate-level professional-development opportunities in STEM (Science, Technology, Engineering, and Mathematics) disciplines. Participants will:

- renew and refresh their professional commitment to high achievement for *all* students
- gain new content awareness and inquiry-based teaching strategies
- sample innovative and exciting “best practice” from SECME master teachers and partners
- see and share new standards-based classroom and enrichment materials
- increase awareness of the academic preparation required for success in engineering studies and careers
- acquire CEUs for teacher recertification, SEMI units for administrator advancement
- network and exchange ideas with colleagues
- interact with SECME university members and corporate/government partners
- enhance technology fluency and competencies
- model National Teaching and Counseling Standards
- implement robust SECME school programs

Upon completion of the Institute, teachers and counselors will have written frameworks, curriculum enrichment materials, internet competencies and teaching methodologies, course implementation guidelines, effective competition strategies and a renewed commitment to motivating and preparing pre-college students to enter and complete post-secondary studies in science, technology, engineering and mathematics.

LEADERSHIP ACADEMY JUNE 24 – 28

The Leadership Academy is an intensive professional development opportunity for principals and district-level administrators. Modules are presented by the nation’s foremost education and industry professionals and address some of the most pressing issues in education leadership – making “No Child Left Behind” work for your school/district; aligning innovative STEM curriculum with your state standards; closing the achievement gap; instructional leadership; integrating technology; and more. In addition, the National Board for Professional Teaching Standards will offer modules for teachers and leaders to bring your school/ district to the next level in teaching and learning.



NATIONAL STUDENT COMPETITION PROGRAM JUNE 25 – 28, 2009

The National Student Competition Program brings winning SECME Engineering Design Competition teams from middle and high schools across the nation together to experience the host university campus, participate in hands-on STEM and engineering activities, and compete for the honor of SECME National Champions in Vex Robotics, Mousetrap Car design, and other competitions. On Saturday, June 27th, teams will compete at the Embry-Riddle ICI Center for cash awards and other recognition.

Register for the SECME Summer Institute at www.secme.org

The SECME Summer Institute: IGNITING MINDS THROUGH STEM EDUCATION



UNIVERSITY COUNCIL, FRIENDS OF SECME STEM Workforce Pipeline Diversity Summit June 25 – 28

SECME's 30-year legacy for student success in STEM has been dependent on our ability to adjust to meet the shifting demands of STEM industry for a well-prepared workforce and the changing paradigms of the Nation's public education system. The SECME "STEM Workforce Pipeline Diversity Summit" is designed to bring together key constituents within the STEM Workforce Pipeline -- k-12 teachers & administrators, university faculty, STEM industry and parents -- to initiate and sustain a dialog which directs and shapes STEM education beginning in the primary grades through post-secondary studies, in order to more effectively prepare and interest a more diverse student population for the STEM careers of the future. SECME invites its University Council, Corporate Council, and other friends and supporters to exhibit or attend workshops.

PARENT ACADEMY JUNE 25 – 28

The Empowering Parents to Excel at Parenting (EP)² program is a four-day residential program that provides personal and professional development for parents. Participants will experience a variety of hands-on activities and competitions enabling them to return home with a better understanding of their child's academic routine. Its goal is to equip parents to be more effective "champions, coaches, and cheerleaders" for their children's academic success, enabling them to better support and assist their children in making sound educational and career choices. All activities are hands-on, minds-on, and interactive.

OTHER MAJOR EVENTS

- SECME Annual Meeting & Teacher of the Year Recognition
- Friends of SECME Exhibits
- National Student Competition
- ExxonMobil Scholar Recognition
- Daytona Cultural Extravaganza



**TEACHER or LEADERSHIP ACADEMY
PARTICIPANT APPLICATION**

**33rd ANNUAL SECME SUMMER INSTITUTE, JUNE 22 - 28, 2009
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FL**

(PLEASE TYPE OR PRINT -- COMPLETE ENTIRE FORM)

ACADEMY: (Check ONLY One) **Teacher/Counselor Academy – June 22 – 28**
Tuition - \$2500 (Includes suite-style dorm housing, meals, materials, local transportation)
 Leadership Academy – June 24 – 28
Tuition - \$2500 (Includes Hotel housing, meals, materials, local transportation)

TITLE: (Check One) Dr. Mr. Ms. Mrs. Miss

NAME _____ SS# _____

SUBJECT(S) _____ GRADE(S) _____

SCHOOL SYSTEM/DISTRICT _____

SECME PROGRAM DIRECTOR _____ PHONE () _____

SCHOOL _____

SCHOOL ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____ PHONE () _____

E-MAIL ADDRESS _____
School Home

HOME ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____ PHONE () _____

Years on SECME team _____ Previous Summer Institutes? Year(s) _____

Special Dietary Requirements (specify) _____

Preferred Suite mate? (name) : _____

ETHNICITY: (Check One) Black or African American Hispanic or Latino
 White Native Hawaiian or Other Pacific Islander
 Asian American Indian or Alaska Native
 Individuals w/disabilities Other or Unknown

Nominee Signature Date

Program Director/Principal/Superintendent Signature (Endorsement/Funding Commitment) Date

Please return completed form to: SECME, Inc. (Attention: Lynda Byrne),

c/o Georgia Institute of Technology, 151 6th Street, NW, Atlanta, GA 30332-0270
Phone: (404) 894-3314 Fax: (404) 894-6553 Toll-Free: (888) 262-8307