

180TH 2YC₃ CONFERENCE
**“BUILDING A FOUNDATION FOR RESEARCH:
PREPARING STUDENTS FOR GLOBAL CHALLENGES”**
BATON ROUGE COMMUNITY COLLEGE
BATON ROUGE, LOUISIANA
APRIL 4-5, 2008

CONFERENCE CHAIRS

PROGRAM

KAREN STEPHENS
PHONE(225) 216-6925
STEPHENSK@MYBR.CC

EXHIBITS

OTTO (KEN) GOINS
(225) 216-8269
GOINSO@MYBR.CC

ARRANGEMENTS

SHERRY GIBSON
(225) 216-6800
GIBSONS@MYBR.CC

AND

RORY RICE
(225) 216-8269
RICER@MYBR.CC

CONFERENCE PROGRAM

FRIDAY, APRIL 3RD

8:30 AM–4:00 CONFERENCE EXHIBITS

8:00AM – 9:00 AM
CONFERENCE REGISTRATION & CONTINENTAL BREAKFAST
LOBBY MAGNOLIA LIBRARY

9:00AM – 9:15 AM
WELCOME AND OPENING REMARKS
MAGNOLIA PERFORMING ARTS PAVILION

9:15AM – 10:15AM
PLENARY SESSION

KEYNOTE ADDRESS

***DO YOU WANT TO PREPARE STUDENTS FOR THE CHALLENGES OF RESEARCH?
“TEACH THEM HOW TO LEARN”***

DR. SAUNDRA MCGUIRE, 2006 PRESIDENTIAL AWARD RECIPIENT FOR EXCELLENCE IN SCIENCE, MATHEMATICS AND ENGINEERING MENTORING (PAESMEM), ASSOCIATE DEAN OF UNIVERSITY COLLEGE, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA

10:00 AM TO NOON: SET-UP FOR STUDENT POSTER SESSION

10:15AM – 10:35AM

REFRESHMENTS

LOBBY MAGNOLIA LIBRARY

10:45AM – 11:30AM

2YC₃ GENERAL MEETING

CYPRESS CONFERENCE ROOM

10:45 AM – 11:30 PM

CONCURRENT SESSIONS

SESSION A –ROOM TBA

BUILDING AN INFRASTRUCTURE FOR QUALITY LEARNING EXPERIENCES THROUGH GLOBAL LEARNING NETWORKS: MERLOT (MULTIMEDIA EDUCATIONAL RESOURCE FOR LEARNING AND ON-LINE TEACHING), MAN (MERLOT AFRICA NETWORK) AND GLOBE (GLOBAL LEARNING BROKERAGE EXCHANGE)

MERLOT, MAN, AND GLOBE ARE INITIATIVES AIMED AT PROVIDING THE NETWORK AND RESOURCES TO IMPROVE TEACHING EFFECTIVENESS AND DESIGN QUALITY LEARNING EXPERIENCES

PRESENTER: DR. MOUS DIACK, PRESIDENT OF THE LOUISIANA ACADEMY OF SCIENCES AND PROFESSOR OF CHEMISTRY AND SCIENCE MATH EDUCATION, SOUTHERN UNIVERSITY, BATON ROUGE, LA

SESSION B –ROOM: TBA

NEW PROCESS DEVELOPMENT IN THE AREA OF BROMINATION REACTIONS; ISOLATION OF LARGER SCALE MICHAEL REACTIONS

THIS PRESENTATION WILL INCLUDE CASE STUDIES IN THE AREA OF BROMINATION REACTIONS AND WILL PROVIDE EXAMPLES OF NEW PROCESS DEVELOPMENTS AND REAGENTS INCLUDING WORK UP AND PRODUCT ISOLATION OF LARGE SCALE “MICHAEL REACTIONS.”

PRESENTER: DR. HASSAN ELNAGAR, ALBERMALE CHEMICAL CORPORATION, BATON ROUGE, LA.

11:45AM – 12:30PM

CONCURRENT SESSIONS

SESSION A –ROOM TBA

STEM ENGINES: UNDERGRADUATE RESEARCH COLLABORATIVE

STEM ENGINES IS A FIVE-YEAR, 2.7 MILLION NSF-FUNDED PROJECT THAT IS EXPLORING WAYS TO ENGAGE COMMUNITY COLLEGE STUDENTS IN AUTHENTIC UNDERGRADUATE RESEARCH AND TRAIN THE NEXT GENERATION OF THE SCIENTIFIC WORKFORCE.

PRESENTERS: DR. TOM HIGGINS (HAROLD WASHINGTON COLLEGE), DR. WILY HUNTER (ILLINOIS STATE UNIVERSITY) AND DR. STEPHANIE PEARSON (ILLINOIS STATE UNIVERSITY)

SESSION B –ROOM

PEARSON PUBLISHERS WORKSHOP
WILL WORK ON THIS TOMORROW

LUNCH: 12:30PM – 1:30PM
BIENVENUE STUDENT CENTER

1:45 PM–4:00 PM JUDGING OF STUDENT POSTERS

1:45PM – 2:30PM
CONCURRENT SESSIONS

SESSION A –ROOM TBA

INSTITUTIONALIZING UNDERGRADUATE RESEARCH

THE COUNCIL ON UNDERGRADUATE RESEARCH (CUR) WAS AWARDED A GRANT FROM THE NSF CCLI PROGRAM TO SUPPORT REGIONAL WORKSHOPS ON INSTITUTIONALIZING UNDERGRADUATE RESEARCH. THE PRESENTERS HAVE ATTENDED THE WORKSHOPS AND WILL SHARE INFORMATION FROM THE WORKSHOPS, INSIGHTS GLEANED FROM THEIR OWN EXPERIENCES WORKING WITH UNDERGRADUATE RESEARCHERS AND SUGGESTIONS ON HOW TO APPROACH THE QUEST TO INSTITUTIONALIZE UNDERGRADUATE RESEARCH.

PRESENTERS: DR. DAVID BROWN (DEPARTMENT OF CHEMISTRY, SOUTHWESTERN COLLEGE, CHULA VISTA, CALIFORNIA), MARY K BOYD (DEPARTMENT OF CHEMISTRY, GEORGIA SOUTHERN UNIVERSITY, STATESBORO, GA)

SESSION B –ROOM TBA

CHEMISTRY IN CONTEXT

THE PRESIDENT AND CEO OF LATEST IDEAS INC WILL DISCUSS THE LATEST CONTEXTUAL, PEDAGOGICAL FEATURES, AND INNOVATIONS EMPLOYED IN THE 2006TH AND 2009TH EDITIONS OF "CHEMISTRY IN CONTEXT." AS A PROLIFIC USER ON THIS TEXT SINCE ITS INCEPTION AND AS EDITOR-IN CHIEF FOR THE LATEST EDITIONS; EUBANKS WILL SHARE ABOUT THE UTILITY OF THIS TEXT FROM DIVERSE PERSPECTIVES.

PRESENTER MRS. LUCY EUBANKS, PRESIDENT AND CEO OF LATEST IDEAS INC., EDITOR IN CHIEF (2006TH AND 2009TH EDITIONS OF CHEMISTRY IN CONTEXT), RETIRED LECTURER CLEMSON UNIVERSITY

3:00PM – 4:30PM

GENERAL SESSION

REVISING THE ACS "GUIDELINES FOR CHEMISTRY IN THE TWO-YEAR COLLEGE"
THIS SESSION WILL INVOLVE INTERACTIVE DISCUSSIONS ON THE EMERGING CHANGES TO THE ACS "GUIDELINES FOR CHEMISTRY AT COMMUNITY COLLEGES.

PRESENTER AND FACILITATOR: DR. DELORES C. AQUINO, ACS TASK FORCE MEMBER, IMMEDIATE PAST 2YC3 CHAIR AND PROFESSOR OF CHEMISTRY, SANJANCINTO CENTRAL COLLEGE
LCTCS BOARD ROOM

6:30PM – 8:30PM

SOCIAL AND BANQUET

BIENVENUE STUDENT CENTER

BANQUET SPEAKER: DR. SHIRLEY MALCOLM

HEAD OF THE DIRECTORATE FOR EDUCATION AND HUMAN RESOURCES FOR THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (AAAS) WASHINGTON DC; AAAS AND AMERICAN ACADEMY OF ARTS AND SCIENCES FELLOW; MEMBER OF THE PRESIDENTIAL COMMITTEE OF ADVISORS ON SCIENCE AND TECHNOLOGY

(TENTATIVE CONFIRMATION RECEIVED)

SATURDAY, APRIL 4TH

EXHIBITS 8:00 AM TO 2:00 PM

8:00AM – 9:00 AM

CONFERENCE REGISTRATION & CONTINENTAL BREAKFAST

LOBBY MAGNOLIA LIBRARY

9:00AM – 10:15AM; PLENARY SESSION

***PREPARING STUDENTS FOR GLOBAL CHALLENGES:
“QUALITY TEACHING AND SYSTEMIC MENTORING ARE THE KEYS”***

SPEAKER:

DR. DIOLA BAGYOYOKO, DISTINGUISHED PROFESSOR OF PHYSICS AND TEACHER OF THE YEAR, US PRESIDENTIAL AWARD FOR EXCELLENCE IN SCIENCE, MATHEMATICS AND ENGINEERING MENTORING RECIPIENT AND DIRECTOR OF THE TIMBUKTU ACADEMY, SOUTHERN UNIVERSITY, BATON ROUGE, LA;

10:15AM – 10:35AM

REFRESHMENTS

LOBBY MAGNOLIA LIBRARY

10:45-11:30

CONCURRENT SESSIONS:

STUDENT SESSIONS A – ROOM TBA

I. MID IR CHANNELIZATION OF VOLUME HOLOGRAPHIC GRATINGS AND NANO FABRICATION OF OPTICAL STRUCTURES

AN NSF FUNDED PROJECT INVOLVING A COLLABORATIVE VENTURE BETWEEN A COMMUNITY COLLEGE TEAM AND SMALL BUSINESS ENTERPRISE PURPOSED TO CHARACTERIZE ONDAX VHGS IN THE IR SPECTRAL REGION AND NANOFABRICATION OF OPTICAL STRUCTURE OF VHGS THROUGH CHEMICAL ETCHING.

PRESENTER: MAUEL ALINGOG, DEPARTMENT OF CHEMISTRY, SOUTHWESTERN COLLEGE, CHULA VISTA CA

II. FACILITATING ACCESS FOR SCIENCE STUDENT SUCCESS (FASS2) PEER LEADER TEAM LEARNING PROGRAM

THE FACILITATING ACCESS FOR SCIENCE STUDENT SUCCESS PROGRAM INITIATED THE PEER LED TEAM LEARNING WORKSHOP CHEMISTRY SERIES WHERE STUDENTS WORKED IN COLLABORATIVE TEAMS FACILITATED BY TRAINED STUDENT LEADERS WHO WERE PERFORMING WELL OR HAD EITHER SUCCESSFULLY COMPLETED THE COURSE.

PRESENTER: CHRIS FELTON (BRCC SCIENCE MAJOR AND PHI DELTA KAPPA SCHOLAR)

SESSION B- ROOM TBA

PEARSON- PRENTICE HALL : MASTERING GENERAL CHEMISTRY : ON-LINE HOMEWORK ASSESSMENT

MASTERING CHEMISTRY IS THE FIRST ADAPTIVE-LEARNING ON-LINE TUTORIAL AND ASSESSMENT SYSTEM FOR GENERAL CHEMISTRY. THIS SESSION WILL DEMONSTRATE THE MASTERING CHEMISTRY PROGRAM, DISCUSS THE ADVANTAGES/DISADVANTAGES AND SHOW HOW INSTRUCTORS CAN USE THIS TOOL TO SAVE TIME, ENERGY AND ASSIST IN IDENTIFYING STUDENT PROBLEMS.

PRESENTER: KENSIE HINGLE (PUBLISHER'S REPRESENTATIVE ENGINEERING, SCIENCE, MATH AND TECHNOLOGY)

11:45AM – 12:30PM
CONCURRENT SESSIONS

SESSION A: ROOM TBA

THE POWER LAW OF PERFORMANCE

THE POWER LAW OF PERFORMANCE AND ACADEMIC PREPAREDNESS INDEX (API) IS USED TO EXPLAIN THE DYNAMICS BEHIND STUDENT RETENTION AND SUCCESS/ THE INTEGRATED LAW OF PERFORMANCE (ILP) WILL ALSO BE USED TO SHOW THAT APPLYING THE PLP TO A VARIETY OF TASKS OVER A LARGE PERIOD OF TIME ENHANCES THE PERFORMANCE OF STUDENTS IN STEM AREAS OR ANY DISCIPLINE.

PRESENTER: DR. DIOLA BAGAYOKO, DISTINGUISHED PROFESSOR OF PHYSICS AND PRESIDENT AND FOUNDER OF SOUTHERN UNIVERSITY'S TIMBUKTU ACADEMY

SESSION B –ROOM

FACILITATING ACCESS FOR SCIENCE STUDENT SUCCESS (FASS²)

FACILITATING ACCESS FOR SCIENCE STUDENT SUCCESS (FASS²) WAS A COMPREHENSIVE PROJECT AIMED AT ENHANCING STUDENT LEARNING AND RETENTION AND THE PERSISTENCE OF STUDENTS TOWARD COMPLETION OF SCIENCE DEGREE PROGRAMS. FUNDED BY THE LOUISIANA BOARD OF REGENTS, THE PROGRAM DEVELOPED SEVERAL STUDENT ACTIVITIES THAT INTEGRATED BOTH THE ACADEMICS AND STUDENT

SUPPORT SYSTEMS TO HOLISTICALLY MENTOR AND EMPOWER STUDENTS FOR THE LEARNING PROCESS.

PRESENTERS: **DR. ESPERANZA ZENON** (-ASSISTANT PROFESSOR OF CURRICULUM AND INSTRUCTION, CLARK ATLANTA UNIVERSITY; FORMER BRCC INSTRUCTOR OF PHYSICS AND PROJECT CO-DIRECTOR) AND **MRS. KAREN STEPHENS** (ASSISTANT PROFESSOR OF CHEMISTRY, PROJECT DIRECTOR)

USING NSF AND ATE FUNDING TO BUILD ASSOCIATE DEGREE PROGRAMS IN ENVIRONMENTAL AND ENGINEERING TECHNOLOGY

FUNDING FROM THE ADVANCED TECHNOLOGY EDUCATION PROGRAM, NATURAL SCIENCE FOUNDATION AND LOUISIANA BOARD OF REGENTS HAVE BEEN LEVERAGED TO DEVELOP BOTH AN ENVIRONMENTAL EDUCATION CENTER AND ASSOCIATE OF SCIENCE DEGREE PROGRAMMING IN ENGINEERING AND ENVIRONMENTAL TECHNOLOGY AIMED AT ADDRESSING THE WORKFORCE NEEDS TO RESTORE COASTAL LOUISIANA

PRESENTERS: **DR. JO DALE ALES, MRS. LAURA YOUNGER, DR. FRANCESCA MELLION** (BRCC DEPARTMENT OF NATURAL SCIENCES)

12:30PM – 1:30PM

LUNCH

BIEVENUE STUDENT CENTER

1:45PM – 2:30PM

CONCURRENT SESSIONS

SESSION A-ROOM TBA

PREPARATION OF UNDERGRADUATE STUDENTS IN SCIENCE FOR RESEARCH AT 2 YEAR COMMUNITY COLLEGE LEVEL: EFFECTIVE USE OF OPEN INQUIRY PROJECTS

THIS PRESENTATION WILL SUMMARIZE HOW STUDENTS BECAME INVOLVED IN AN “OPEN INQUIRY” RESEARCH PROJECT THAT EMERGED AS A RESULT OF ROUTINE ACADEMIC ACTIVITIES IN A CHEMISTRY COURSE DESIGNED FOR SCIENCE MAJORS.

PRESENTER(S): DR. KENNETH MALONEY (CASE PROFESSOR OF THE YEAR AND RETIRED PROFESSOR OF CHEMISTRY AT BATON ROUGE COMMUNITY COLLEGE), **Ms. ANA FRYE** (FORMER BRCC STUDENT AND SECONDARY SCIENCE INSTRUCTOR, TRINITY HIGH SCHOOL, WEAVERVILLE, CA) AND **Ms. CECILE GRISBY**(FORMER BRCC STUDENT AND NUTRITIONIST WITH THE WOMAN’S HOSPITAL AND EAST BATON ROUGE SCHOOL SYSTEM)

SESSION B STUDENT PRESENTATIONS—ROOM: TBA

I. CURVE FITTING AND DECONVOLUTION METHODS APPLIED TO SPECTROSCOPIC MEASUREMENTS IN TWO STATE CHEMICAL SYSTEMS: ACID-BASE INDICATORS

THIS PROJECT INVOLVES THE APPLICATION OF UV-VISIBLE SPECTROPHOTOMETRY TO DETERMINE BUFFERING CAPACITIES OF SEVERAL SOLUTIONS. METHODOLOGY INVOLVES DECONVOLUTION OF OVERLAPPING SPECTRAL LINES TO ACHIEVE INDIVIDUAL PEAK INTEGRATION.

PRESENTER: CHONDA DELA CRUZ, DEPARTMENT OF CHEMISTRY SOUTHWESTERN COLLEGE, CHULA VISTA, CA

II. FORMATION OF ALUMINUM OXIDE USING EXTRUDERS

THIS PROJECT DESCRIBES A TECHNICAL PROCESS FOR IMPROVING THE YIELD OF ALUMINUM OXIDE IN AN INDUSTRIAL PROCESS EMPLOYING THE USE OF EXTRUDERS

PRESENTER: MR. GREGORY MANCHESTER (CHEMISTRY MAJOR, BRCC DEPARTMENT OF PHYSICAL SCIENCES AND CHEMICAL TECHNICIAN, BASF WYANDOTTE CORPORATION, PORT ALLEN, LOUISIANA

2:30-3:30 MEETING OF STUDENT PAPER AND POSTER PRESENTATION JUDGES

3:00PM – 4:00PM
ROUNDTABLE DISCUSSION

BUILDING RESEARCH CAPABILITIES: PARTNERSHIPS AND CONSORTIA THAT FACILITATE RESEARCH AT 2 AND 4 YEAR INSTITUTIONS

FACILITATOR -ANN ZANDERS (BRCC PROGRAM MANAGER FOR GRANTS AND STRATEGIC INITIATIVES)
PANELISTS: DAVID BROWN, TOM HIGGINS, DIOLA BAGYOYOKO, KEN MALONEY
MAGNOLIA PERFORMING ARTS PAVILION

4:00PM – 4:30PM
CONFERENCE CLOSING
PRESENTATION OF STUDENT AWARDS
DOOR PRIZES
LCTCS BOARD ROOM

HOTEL INFORMATION

ASK FOR THE 2YC₃ RATE

REGISTRATION MUST BE MADE BY 3/4/08 FOR THE SPECIAL RATE AND GUARANTEED WITH A CREDIT CARD.

ANY REQUESTS RECEIVED AFTER 3/4/08 WILL BE HANDLED ON A SPACE AVAILABILITY BASIS ONLY.

COMFORT INN
4924 CONSTITUTION AVE.
BATON ROUGE, LOUISIANA 70808
(225) 930-0600
(225) 930-0655
GM.LA162@CHOICEHOTELS.COM

RATES:

<i>ROOM TYPE</i>	<i>SINGLE</i>	<i>DOUBLE</i>	<i>EXTRA</i>
NDD	\$84.00	\$84.00	\$10
NK	\$74.00	\$74.00	\$10

HAMPTON INN
4646 CONSTITUTION AVE.
BATON ROUGE, LA 70802
(225) 926-9900
FAX (225) 923-3007

RATES:

<i>ROOM TYPE</i>	<i>SINGLE</i>	<i>DOUBLE</i>	<i>EXTRA</i>
DOUBLE/DOUBLE	\$99.00	\$99.00	\$10
KING	\$99.00	\$99.00	\$10

RATES INCLUDE A CONTINENTAL BREAKFAST BUFFET.
FOR PERSONS ARRIVING EARLY OR STAYING ADDITIONAL NIGHTS ARRANGEMENTS SHOULD BE MADE NO LATER THAN 30 DAYS PRIOR TO GROUP ARRIVAL (APRIL 3-5, 2008) TO INSURE ACCOMMODATIONS.