

SREB

Technology Centers
That Work

Ninth Annual Technology Centers That Work Leaders' Forum

Renaissance Mobile Riverview Plaza Hotel
January 31 – February 2, 2017

Dear Forum Attendees,

On behalf of the TCTW staff, it is my pleasure to welcome you to the Technology Centers That Work (TCTW) Leaders' Forum. This year's theme, **Accelerate the Pace: Redesigning the Senior Year to Meet Pathway Requirements**, will guide career and technical education (CTE) leadership teams through an in-depth analysis of their current program of studies. Teams will develop a road map for continuous improvement and sustainability that includes a timeline, key milestones, resources and outcome data. Breakout and deep-dive sessions will emphasize the benefits of schools:

- Seeking industry leaders to form meaningful career pathways in high schools
- Implementing readiness courses throughout high school to increase student preparedness
- Accelerating student schedules during the senior year to increase student options
- Reorganizing high school schedules to emphasize faculty teamwork
- Expanding dual enrollment opportunities to include high quality CTE courses and make them available to all students

It is our hope that your time at the TCTW Leaders' Forum is truly rewarding and filled with opportunities to build lasting professional relationships, discover new ideas that will work for you and your students, and leverage opportunities for greater collaboration between your CTE program and businesses in your region and state.

Kind regards,

A handwritten signature in black ink that reads "Lynda Jackson". The signature is written in a cursive, flowing style with a large initial "L".

Lynda Jackson

Director, Technology Centers That Work

Dear TCTW Leaders' Forum Attendees,

The purpose of the TCTW Leaders' Forum is to bring together leaders from shared-time centers, sending school districts and postsecondary institutions to learn about best practices from across the nation. The Forum provides a venue for leaders to network and develop strategies related to college readiness, career readiness and credential attainment. The goal is for leaders to leave the Forum with an action plan for improving instruction and student achievement.

National data are clear. Educational experiences in the middle grades and high school affect students' readiness for college and careers. Completing a rigorous program of study within the context of a career pathway appears to enhance the college and career readiness of students who complete a college-ready academic core and a sequence of four technical courses.

Unfortunately, national data show fewer high school students pursuing career pathways to postsecondary studies and employment. The senior year is the last opportunity for many students to obtain the skills needed to be successful in college or earn a credential of value to business and industry. Thus, the 2017 TCTW Leaders' Forum will focus on how to redesign the senior year within a shared-time center so students make a successful transition to postsecondary training and/or the workplace.

Your attendance at the Forum is evidence of your desire to grow professionally and learn how to best prepare students for postsecondary training and careers. Over the course of the next two days, it is our desire to provide a professional learning experience that will assist you and your center in developing rigorous programs of study within high-demand, high-skilled career pathways and structure the senior year so students are ready to obtain a credential of value.

Sincerely,

A handwritten signature in black ink that reads "Dale Winkler". The signature is written in a cursive, flowing style.

Dale Winkler

Special Assistant to the Senior Vice President, SREB

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Technology Centers That Work (TCTW)

TCTW assists shared-time career and technical education (CTE) centers to improve student achievement and produce graduates who can achieve in high-demand, high-skill, high-wage career fields. The TCTW design is based on the High Schools That Work (HSTW) design with modifications that address the specific needs of shared-time centers. More than 175 centers in 17 states participate in activities to promote increased academic and technical performance.

General Information

Registration

Monday – 3 – 5 p.m.

Tuesday – 9 a.m. – 5 p.m.

Wednesday – 7 – 8:30 a.m.

The registration desk will be in the Bon Secour Bay Foyer, and staff will be available to answer any questions about the forum.

Meals

Breakfast and lunch will be provided in the Bon Secour Bay Ballroom. Breaks will be available in the Bon Secour Bay Foyer.

Presentation Downloads

Electronic copies of session presentations and handouts will be available for free download at www.sreb.org/tctwforum within two weeks after the Forum if TCTW has received materials from presenters.

Evaluations and Certificate of Attendance

As part of our efforts to “go green,” we will email the evaluation form after the conference has ended. Upon completion of the evaluation, you will receive an electronic certificate of attendance within 10 business days. Please note: To receive your certificate, you must check in at the registration desk.

Social Media

Follow us on Facebook at <https://www.facebook.com/HSTWSummerConference/> for updates, news and to connect with your fellow attendees.

Interactive Content Notebooks/Guided Note-Taking Strategies

Interactive content notebooks are one form of guided note-taking. Students are encouraged to ask questions, make connections, create graphic representations, extend learning and organize their thinking in a guided format. While teachers are free to develop their own format and requirements for guided note-taking, Forum participants are encouraged to practice structured note-taking as part of their industry tours and as they record thoughts related to sessions they attend. Templates are included in the conference bag and will be used for luncheon guided discussions on Wednesday and team planning on Thursday.

Schedule at a Glance

Monday, January 30, 2017

3 – 5 p.m. Registration

Tuesday, January 31, 2017

9 a.m. – 5 p.m. Registration

1 p.m. Opening General Session

2 p.m. Break

2:15 – 4:30 p.m. General Session

Wednesday, February 1, 2017

8 – 11:30 a.m. Industry Tours or *Most Likely to Succeed* Movie

11:30 a.m. – 1:30 p.m. Lunch and Facilitated Discussion

1:45 – 4 p.m. Deep-Dive Sessions

2:45 p.m. Afternoon Break

Thursday, February 2, 2017

8 – 9 a.m. General Session

9:15 – 11 a.m. TCTW Showcase

10 a.m. Break

11:15 a.m. – Noon Team Planning

Forum Strands

1. Career Pathway

Learn how the elements of career pathways (rigorous courses, work-based learning, dual credit programs, certifications) prepare students for the transition to postsecondary education and careers.

2. Standards

Learn what a high-quality program of study looks like and how to align it to state and industry technical standards for reading, mathematics and science. See how frequent collaboration among academic and CTE teachers is the key to aligning curricula and instruction to ensure student readiness.

3. Curriculum

TCTW centers ensure that programs of study are preparing students for careers by having them complete a recommended academic core (four college-preparatory English courses, four college-preparatory mathematics courses and three lab-based science courses) and a defined sequence of four CTE courses.

4. Career Course Articulation

Career courses are articulated to build depth of knowledge and skills without redundancy and to integrate opportunities for students to gain firsthand experience in the career field. Learn how to develop partnerships with local four-year universities, community colleges and postsecondary training institutions to help students earn substantial postsecondary credit during high school.

5. Work-Based Learning

Explore ways to expand opportunities for all students to participate in work-based learning experiences that are intentionally designed to reinforce academic and technical pathway course work as well as help students focus on their career goals and connect with their community.

6. Guidance and Counseling

An in-depth mentor system has students meet with a counselor or mentor at least once a semester to review their progress and update their programs of study. See how career interest surveys and inventories, industry-relevant field trips, visits to colleges and universities, and middle grades student tours of local career centers can inform and engage students.

7. Student Experiences

Learn how to engage students in high-quality project-based learning and course work to help them see a clear relationship between classroom learning and future education and employment opportunities.

8. Data Collection

Successful centers track student measures such as on-time graduation, completion of stackable certificates, pathway completion and career-related activities such as employment and volunteering. See how using data and following up on students for at least four years after high school can help improve existing programs.

Tuesday, January 31, 2017

9 a.m. – 5 p.m.	Registration	Hall by Bon Secour Bay Ballroom
1 – 2 p.m.	Opening General Session	Bon Secour Bay Ballroom
2 – 2:15 p.m.	Break	Bon Secour Bay Foyer
2:15 – 4:30 p.m.	Whole Group Session	Bon Secour Bay Ballroom

1 p.m. Opening General Session Bon Secour Bay Ballroom

Welcome: Philip Cleveland, Alabama Deputy State Superintendent for Career and Technical Education/Workforce Development

Peeking Around the Corner to See the Future of Work

Keynote Speaker: Ted Abernathy, Managing Partner, Economic Leadership LLC

Ted Abernathy is the managing partner of Economic Leadership LLC, a consultancy working in more than a dozen states to develop economic strategies.

He has been executive director of the Southern Growth Policies Board, a public policy think tank that has provided economic development research, strategy and marketing advice to states and communities across the South. He has also served as executive vice president and chief operating officer for the Research Triangle Regional Partnership and as an economic development policy adviser to the Southern Governors Association. Abernathy is an Eisenhower Fellow for global economics.

Abernathy will share his deep understanding of workforce and economic development issues. He will help educators interpret issues and simplify complex concepts and information into compelling messages.

TCTW Award Winners Recognition

Exceptional Transformation of CTE Centers – Statewide Award

West Virginia Department of Education

Outstanding CTE Center Award

Elkhart Area Career Center

Elkhart, Indiana

Preview of Forum Strands and Tours

2:15 – 4:30 p.m. Deep-Dive Session Bon Secour Bay Ballroom

Explore the programs of study rubric as you analyze your center’s progress in this critical focus area. Teams will reflect on current practices and determine which strand needs the most attention.

At this session conclusion, teams will use their analysis to select forum strands for the Wednesday afternoon deep-dive session.

Wednesday, February 1, 2017

7 – 8:30 a.m.	Registration	Hall by Bon Secour Bay Ballroom
8 – 11:30 a.m.	Industry Tours/Movie	Shuttle Bus/Mobile Bay Ballroom 3
11:30 a.m. – 1:30 p.m.	Lunch and Discussion	Bon Secour Bay Ballroom
1:45 – 4 p.m.	Whole Group Sessions	Various locations
2:45 – 3 p.m.	Break	Bon Secour Bay Foyer

8 – 11:30 a.m. *Movie: Most Likely to Succeed* Mobile Bay Ballroom 3

“*Mostly Likely to Succeed*” is a film about school, its past and its future. The film inspires audiences with a sense of purpose and possibility and is bringing school communities together in re-imagining what our students and teachers can do. The film will be used to introduce 21st-century principles in redesigning schools to meet education needs. Participants will engage in an open discussion and walk away with an action plan to use at their schools.

8 – 11:30 a.m. Industry Tours Shuttle Bus pickup: Fathoms Streetside

Participants selected one of the following tours during pre-registration. Tours have a maximum number of participants so last-minute changes are not possible. Everyone should meet in the lobby to load busses for the tours. Each tour is facilitated by a TCTW/SREB staff member.

AIDT (Alabama Industrial Development Training)

AIDT is an independent agency that encourages economic development through job-specific training. It launched a maritime training program in Mobile, Alabama in 2007 to provide job seekers with qualifications and skills needed to join the growing maritime industry.

Its 67,000 square foot facility features classrooms, computer labs, an electrical lab and a non-destructive testing lab. On the shop floor, there are 60 welding booths, a CNC plasma table, a sub-arc welder, a track welder and a large lay-down yard with overhead crane access. It also has a counter-balanced rough terrain forklift, man-lift, scaffold building, and a 10-ton overhead crane and rigging for safety training.

The AIDT Maritime Training Center is available to all maritime and industrial companies and offers instruction in industry standards, upgraded technologies and custom training.

Aker Solutions

Aker Solutions is a global company with 13,000 employees in 20 countries. The Mobile facility makes unique, robust umbilical systems for oil and gas production. Umbilicals link surface and seafloor oil and gas equipment for controls, power or heat. They provide electric and fiber-optic signals, electrical power and hydraulic and chemical injection fluids to the subsea unit.

Attendees will learn about using 5S in manufacturing and the skills and organization required to deliver products in today’s marketplace.

Austal USA

A global defense prime contractor for more than 27 years, Austal USA designs and manufactures military and commercial ships. Austal USA is the prime contractor of two major U.S. Navy ship-building programs: the Independence-variant Littoral Combat Ship and the Expeditionary Fast Transport — formerly named the Joint High Speed Vessel. The largest manufacturing employer in Mobile, Austal USA’s state-of-the-art facility occupies approximately 164 acres and is located on the Mobile River approximately 20 miles from the Gulf of Mexico.

Attendees will learn about skills needed in the workforce and in ship building.

Continental Motors

Continental Motors is a world leader in the development of aviation products. Its engines power over half of the world's general aviation aircraft in the world. At Continental Motors, the manufacturing team is highly skilled in areas such as machining, assembling, testing, heat treatment and plating as they strive to build quality products and lead in technical innovation. The commitment to the strength, safety and happiness of its employees is evidenced by the average tenure of more than 13 years.

Attendees will learn how 5S is used in manufacturing and the skills needed by today's workforce.

Evonik

Evonik is one of the world's leading specialty chemicals companies. Operations are grouped as three independent companies: nutrition and care, resource efficiency and performance materials. Mobile is home to Evonik's largest North American site. Some 700 employees produce hydrogen peroxide, fumed silica, the animal feed additive methionine and alkoxides used as catalysts in biodiesel production. Evonik's specialty catalyst for biodiesel production makes it the global market leader in the field.

Attendees will learn about the complexities of manufacturing chemicals and the skills needed for employment in this field.

Kimberly-Clark

Its essential brands touch nearly one of four people globally every day. The Mobile plant has about 800 employees in a regional manufacturing, distribution and operations facility responsible for manufacturing tissue products, including facial tissue, bathroom tissue, hand towels and wipes for home and commercial use. Kimberly-Clark runs its own on-site power plant.

Attendees will learn about the importance of technical and engineering skills in the manufacturing process and other workforce skills sought by business and industry.

SSAB Americas

SSAB Americas is the largest producer and supplier of steel plate in North America. Its modern steel mills use a scrap-based, electric arc furnace method and have a combined annual production capacity of 2.4 million tonnes. SSAB Alabama has one of the world's most advanced quenched and tempered steels lines and manufactures a wide range of quality steel products that are used in energy, heavy transportation, construction infrastructure and mining industries. Approximately 860 people work at the 780-acre facility.

Attendees will learn about the steel industry and skills needed in the manufacturing process.

VT Mobile Aerospace Engineering, Inc.

This company provides aircraft maintenance and modification (AMM) services for both commercial airlines and air freight operators. VT MAE provides a full spectrum of high quality, reliable and timely AMM and engineering solutions to comprehensively manage complex projects. Now in its 25th year of operation, VT MAE, a business unit of the aerospace division of VT Systems, has more than 1,000 employees and operates nearly 900,000 square feet of hangar space, support shops, offices and ramp space.

Attendees will learn about the vast range of skills needed in aircraft modification and the aviation maintenance industry.

11:30 a.m. – 1:30 p.m. Lunch and Facilitated Discussion Bon Secour Bay Ballroom

Participants will receive lunch seating assignments. Table leaders will guide discussions about the morning tours or movie and connect attendees to information from the luncheon speaker. Please bring your movie notes or note-taking guide in your conference bag.

Facilitated Discussion – *How to Align Your Programs of Study to Meet the Senior Year Redesign*

By 2020, about two-thirds of all jobs in the United States will require some postsecondary education – meaning a certificate, credential or degree at the associate level or higher. Redesigning the senior year to include both high-quality CTE programs leading to industry credentials and readiness courses for underprepared students can provide opportunities for students to earn meaningful credentials and college credits. Partnerships among high schools, colleges and local industries can create pathways for students that lead directly to jobs in high-demand industries such as aerospace engineering, biotechnology, computing and information technology, energy, financial management, health care, and transportation and distribution.

Presenter: Dale Winkler, Special Assistant to the Senior Vice President, SREB

Deep-Dive Sessions – 1:45 p.m. – 4 p.m.

Career Pathways

Mobile Bay 1

Practitioners will share the process of collaboratively developing career pathway charts. Three sites that have gone through the process will share their experiences. Participants will complete the opening activity of a career pathways workshop.

Presenters:

- Tracy Gyoerkoe, Director of Career, Technical, Adult and Continuing Education, Jefferson Lewis BOCES, New York
- Ray Dunn, Career Development Coordinator, Windham Regional Career Center, Vermont
- Rachelle Romoda, Supervisor of Instruction, St. Lawrence-Lewis BOCES, New York

Facilitator: Dave Leavitt, TCTW

Standards

Mobile Bay 2

Learn how to align a high-quality program of study to state- and industry-technical standards for reading, mathematics and science. See how frequent collaboration among academic and CTE teachers is the key to aligning curriculum and instruction to ensure student readiness.

Presenters:

- Alyssa Hamilton, Integrated ELA Teacher, Nicholas County Career Center
- Karen Machado, Principal, Manchester School of Technology, New Hampshire
- Karyn L. Watt, TCTW Coordinator and Integrated Academics Team Leader; Hilary Reilly, science teacher; and Chef Peter Desmond; Questar III BOCES, New York

Facilitator: Carolyn Helm, TCTW Lead Specialist

Deep-Dive Sessions — 1:45 p.m. – 4 p.m.

Curriculum

Mobile Bay 3

What does it mean to be college and career ready when it comes to the curriculum CTE students experience? Participants will work through a facilitated process that begins with exploring labor market data — considering sectors and regional implications and mapping this data with CTE programs. Participants will develop a road map that can be replicated with center and community pathway stakeholders.

Presenters:

- James Stone, Director, National Research Center for Career and Technical Education at SREB
- Kathleen McNally, SREB Consultant

Career Course Articulation

Grand Bay 1

Learn how articulation agreements allow students to receive college credit for certain CTE courses completed during their high school experience. Dual credit programs, rigorous courses, and industry certifications can expedite students' purposes and passions in life. Participants will learn how to optimize data collection and reporting to streamline students' career pathways and support their transition to postsecondary education and careers.

Presenters:

- Lisa Greenwell and Thomas Rushton, Lehigh Career and Technical Institute
- Steve Elza, William Fremd High School, Illinois
- Kristi Bain, Alabama Community College System

Facilitator: Linda Moyer, Consultant

Work-Based Learning

Grand Bay 2

Participants will complete an in-depth analysis of work-based learning and apply the rubric to the programs within the schools of each attendee. Participants will use a quick-share format to gain new ideas; hear about planning, implementation and successes of the activities presented; and walk away with resources for local planning and implementation. Teams will create a three-year implementation plan to expand opportunities for all students to participate in work-based learning experiences.

Presenters:

- Mike Pantleo, Director, Lisa Burgess, Culinary Arts Instructor, and Cory DeVaul, CSI/Law Enforcement Instructor, Career and Technology Center at Ft. Osage, Missouri
- Greta Riffle, Integrated Academics Mathematics and Nichole Tews, Integrated Academics English, Cass Career Center, Missouri
- David Webber, Director, and Jim Williams, Counselor, Crowder Technical Education Center, Missouri
- Kelli Engelbrecht, Director, Eldon Career and Technology Center, Missouri
- Chris Lake, Director and Randy Barnes, Construction Instructor, Excelsior Springs Area Career Center, Missouri
- Keith Davis, Director, Lebanon Technology Education Center, Missouri
- Jamie Bergsieker, Health Occupations II Instructor, Lex La Ray Technical Center, Missouri
- Lisa Weatherly, Assistant Director, Northland Career Center, Missouri
- Craig Carson, Assistant Superintendent, Ozark School District, Missouri

Facilitator: Gina Smith, School Improvement Consultant

Deep-Dive Sessions – 1:45 p.m. – 4 p.m.

Guidance and Advisement

Riverboat

An organized, structured effort that connects a career goal to a high school and postsecondary program of study will help students acquire the knowledge and skills necessary to succeed in higher education and the workforce. A successful guidance and advisement program provides students with learning experiences that enable them to create a meaningful vision for a successful future and gives them a program of study for achieving that vision. Participants will explore templates, timelines and action plans for effective counseling and advisement.

Presenters:

- Kevin Hoover, Informatics Instructor, Carroll County Technology Center, Kentucky
- Phyllis Stewart, Retired CTE Director, Knox School Corporation, Indiana
- Kathleen McNally, TCTW, SREB
- Lynn Anderson, Counseling for Careers Coordinator, SREB

Student Experiences

Schooner

Engage students in high-quality project-based learning and course work to help them see a clear relationship between classroom learning and future education and employment opportunities. Participants will explore the role of leadership in facilitating teachers to design and implement high-quality course work; the role of staff in facilitating and sustaining relationships with business and industry; differentiated coaching to move teachers forward in high-quality course work; and enhanced rigor that mirrors problem-solving in the workforce through Advanced Career and simulated workplaces.

Presenters:

- Randy Gooch, Brandon Russell, and Jeaniene Thompson, Columbia Area Career Center, Missouri
- Brenda Emerson, Brandon Eakins, Elizabeth Allen and Jacalyn O'Hara, Elkhart Area Career Center, Indiana
- Frank Stafford and Curt Claycomb, Northland Career Center, Missouri
- James Scott and students, BC Rain High School, Alabama

Facilitator: Marty Sugerik, SREB Consultant

Data Collection

Windjammer

Center teams will learn to use and/or create data tools that help identify opportunities for instructional improvement. Explore how to collect and publish data about on-time graduation rates, completion of stackable certificates, progress in completing pathways, and career-related activities such as employment and volunteerism. Through conducting formal follow-up of students for at least four years after high school graduation, centers can use data collected on postsecondary program completion, employment, and certifications to continuously improve their programs. Participants will create a 30/60/90-day plan to obtain or improve data collection.

Presenters:

- John Foster, President and CEO, NOCTI
- Lynda Jackson, Director, Technology Centers That Work
- Brian Noller, Director, Northland Career Center

Thursday, February 2, 2017

8 – 9 a.m.	General Session	Bon Secour Bay Ballroom
9:15 – 11 a.m.	TCTW Showcase	Mobile Bay Ballroom
10 a.m.	Break	Mobile Bay Ballroom
11:15 a.m. – Noon	Team Planning	Bon Secour Bay Ballroom

8 – 9 a.m. General Session Bon Secour Bay Ballroom

Redesign the Senior Year to Accelerate Readiness and Postsecondary Learning

The educational and economic landscapes of the United States are changing, and schools must keep up. Sixty-five percent of all jobs, especially in high-wage, high-demand fields, require some college or a credential. The new High Schools That Work model assists schools in redesigning the senior year to give college-ready students opportunities to take high-quality dual enrollment courses that allow them to graduate with up to 30 credits toward an associate, bachelor's degree or advanced credential. It also supports struggling students with readiness intervention options so they may enter postsecondary education and training programs without the need for remediation. The goal is to have 80 percent of students graduate high school ready for college, careers or both.

Presenter: Gene Bottoms, Senior Vice President, SREB

9:15 – 11 a.m. Showcase Sharing Session Mobile Bay Ballroom

A powerful, longstanding belief and practice of SREB is building a network of school leaders, teachers and students who are committed to school improvement and who believe in sharing best practices, innovation, risk-taking strategies and lessons learned as a way of strengthening the entire network.

Participants will choose among roundtable discussions to explore center success stories as well as information about resources related to strands of the CTE rubric.

Showcase #1: 9:15 – 10 a.m.

Showcase #2: 10 – 10:45 a.m.

10 – 10:15 a.m. Break Mobile Bay Ballroom

11:15 a.m. – Noon Team Planning Bon Secour Bay Ballroom

SREB/TCTW consultants will be available to facilitate conversations among attendees from the same state. Participants will use their notes from the Maximizing the Forum Experience on page 14 to develop plans for sharing and implementing their learning from the Forum.

SAVE the DATES

College- and Career-Readiness Standards
Networking Conference
July 10-12, 2017
Gaylord Opryland Resort & Convention Center
Nashville, Tennessee
www.sreb.org/networkingconference

31st Annual HSTW Staff Development Conference
July 12-15, 2017
Gaylord Opryland Resort & Convention Center
Nashville, Tennessee
www.sreb.org/summerconference

Presenters Directory

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Presenters Directory

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Maximizing the Forum Planning Guide

You can use this form to plan your conference sessions and to take notes about each session. Choose sessions based on your center's identified priorities. Listen carefully for ideas and practices that you can connect to your center. You will be able to use your notes for your Thursday team planning time.

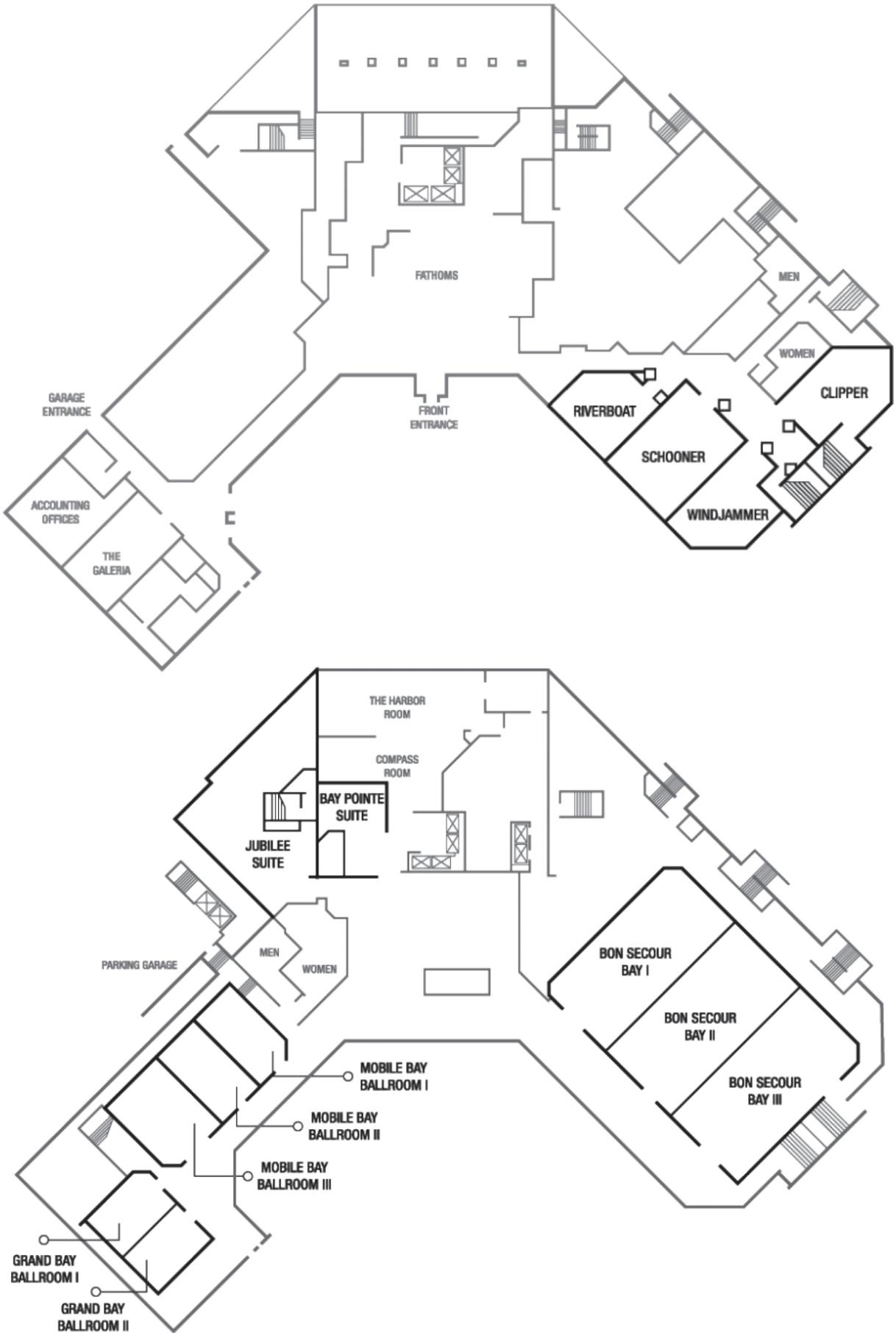
SESSION	KEY IDEAS, PRACTICES	CONNECTIONS, QUESTIONS, EXTENSIONS
Tuesday 1 p.m. General Session		
Tuesday 2:15 p.m. Rubric Exploration		
Wednesday Luncheon Speaker		
Wednesday 1:45 p.m. Session Title:		
Thursday 8 a.m. General Session		
Thursday 9:15 p.m. Showcase Ideas		

Big ideas from the conference:

Things I need/want to share with those at my center:

Things we need to explore further:

Renaissance Mobile Riverview Plaza Hotel



17V02

JANUARY 2017

SREB

Southern Regional Education Board
592 10th St. N.W.
Atlanta, GA 30318
(404) 875-9211