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I. Alliance Abstract

The Kentucky-West Virginia Louis Stokes Alliance for Minority Participation (KY-WV LSAMP) is a shared effort continued by ten Institutions, 6 in Kentucky and 4 in West Virginia. The institutions are joined by the KY-NSF Experimental Program to Stimulate Competitive Research (EPSCoR), and the WV-NSF EPSCoR to increase the number of burgeoning (traditionally referred to as underrepresented “minorities”) population students who complete undergraduate degrees in science, technology, engineering and mathematics (STEM) fields. The 5-year intention at the end of Phase I (2010) of the KY-WV LSAMP is to increase undergraduate degrees at these institutions from the objective populations by 111%, achieving an annual burgeoning population (traditionally underrepresented groups) STEM baccalaureate production of 270 from the Alliance. The KY-WV LSAMP is an integral component contributing to a developing industrial support base in both states.

There is a compelling need for college graduates with strong technical skills. There is also wide recognition that the burgeoning populations must participate appreciably in meeting this need. The current LSAMP effort is one that was developed by the University of Kentucky (UK). The LSAMP partnership includes, Bluegrass Community and Technical College (BCTC), Centre College (CC), Kentucky State University (KSU), University of Louisville (UofL), Western Kentucky University (WKU), Marshall University (MU), West Virginia State University (WVSU), West Virginia State Community and Technical College (WSCTC), and West Virginia University (WVU). Each institution works to support Alliance-wide and individual campus-based programming to accomplish previously mentioned goals. The primary outcomes will be to enhance the recruitment, retention, and throughput of burgeoning population students and increase the number of such students and others at participating institutions overall who earn bachelor’s degrees in STEM disciplines.

The shortage of American graduates from institutions of higher learning with technical and scientific training is well documented, as well as the percentage of U.S. students entering colleges and universities with the intention of majoring in STEM fields has steadily declined. Strengthening the STEM workforce and its leadership is a priority concern to Kentucky and West Virginia in the assurance that the U.S. maintains its economic hegemony, security, and value of its human resource. Preparing African Americans, Hispanic Americans, and American Indians for careers in these fields is a logical constituent of most adaptations important to success in maintaining the U.S. leadership in STEM. There is a tremendously convincing reason in states like Kentucky and West Virginia where these populations make up approximately 9% (KY), and 4.1% (WV) of the population. Improving burgeoning population involvement in undergraduate STEM fields is a multifaceted problem. In both, Kentucky and West Virginia the advance of a vibrant statewide plan that speaks to this problem requires that diverse types of institutions work together intimately to achieve a shared, long-term objective in terms of the production of burgeoning population STEM graduates. The existing KY-WV LSAMP effort is the result of such inter-institutional collaborations.
In addition to its primary actions, the KY-WV LSAMP projects provide opportunities designed to inspire students to pursue advanced study, and prepare students for the rigors of graduate school study. The projects also accentuate career opportunities in STEM fields, connect faculty and staff in the planning processes, and provide proficient development activities to ensure institutionalization, while creating a genuine joint venture among institutions and organizations within Kentucky and West Virginia. The University of Kentucky continues to serve as the lead institution and fiduciary agent on behalf of the Kentucky-West Virginia Alliance and President Lee Todd, an accomplished member of the professoriate, and a research scientist himself, continues to serve as the principal investigator and chair of the Governing Board. The Governing Board, along with the Institutional Steering Committees and research faculty, will continue to provide intellectual leadership to the Alliance.

A. Alliance Goals and Objectives

The primary mission and goal of the KY-WV LSAMP is to increase the number and quality of burgeoning population students earning baccalaureate degrees in science, technology, engineering, and mathematics (STEM) and the number of burgeoning population students enrolling, succeeding, graduating, and ultimately pursuing graduate programs in STEM, substantially. To accomplish this we have identified several process objectives, which include expansion and reinforcement of systemic mentoring, including research participation and guidance to graduate school. We are growing our collaboration with other systemic programs, national resources, and industry partners that have a need and interest in the STEM enterprise. The KY-WV Alliance continues to sponsor and expand the Annual LSAMP Student Symposium that provides students with an opportunity to give scholarly presentations, network with faculty and students from Alliance institutions, and participate in workshops and seminars.

This event has become one of the region’s premier academic activities focused on student participation. To this end, we work to enhance the science, technology, engineering, and mathematics infrastructure of KY-WV LSAMP institutions in a fashion that promotes total institutionalization of the gains of the KYWV-LSAMP. In doing all that has been referenced we expect to produce and disseminate new knowledge in discipline areas by scholars and mentors, new knowledge in teaching, learning and mentoring that is presented and/or published in/at scholarly journals, conferences/meetings. Ultimately, we expect to disseminate the KY-WV LSAMP approach for replication purposes at the local, regional, national, and international levels.

To continue to manage and administer LSAMP Phase I we now have a full staff complement along with the Executive Director, Michael Lee who joined our KY-WV LSAMP team in 2007, we have hired an Administrative Coordinator, Jaime Nebbitt who has vast experiences administering programs, office management, project planning, and database expertise. We have also brought aboard a Senior Accountant, Dorothy Ferguson who has several years experience working with federal contracts and grant accounts in the higher education environment. We believe that we have a top-notch team with the abilities and skill sets to assist each KY-WV Alliance institution in carrying out the objectives of the LSAMP partners individually and collectively. We actively promote and engage the Campus Leadership at each of the partner institutions in the KYWV-LSAMP. We continue to engage proactively the KY-WV LSAMP governing board. We effectively utilize findings of the external reviewer and will utilize a valid, reliable, comprehensive evaluation to guide programmatic adjustments. We are attempting, through
our implementation of support constructs, to transfer the KY-WV LSAMP function to campuses (institutionalization) gradually. Throughout phase 1 of the KY-WV LSAMP, we work to ensure effective documentation including identifiable metrics for each objective.

The KY-WV LSAMP has established guidelines for Level one (1), students that we define as those that the program spends funds on directly, i.e. for research experiences, class materials/books, support for training, attendance at conferences, presentation forums, etc. The Level two (2) student are students who participate in the activities and/or constructs that are, in most cases required for the level one student, on an optional basis and those activities wherein no direct funds are expended for that student specifically. Level two students are comprised of every student impacted by any LSAMP activity, which include the full range of cultures, ethnicities, and disciplines at the KY-WV Alliance institutions.

B. Impact and Systemic Changes
We strive to be in the position to posit, “The Kentucky and West Virginia institutions that have an association with the KY-WV LSAMP are also the institutions in the region which produce the most students from the “burgeoning populations” with baccalaureate degree attainment.” In other words, we would like to believe and present evidence that the presence of the KY-WV LSAMP is the grounding principle for these populations doing well in the STEM fields. However, at this point we can only claim this to be the case because of a selection effect. We are interested in and working towards finding out if the presence of our LSAMP is causality for the alliance institutions developing the infrastructure that is necessary for the target populations of LSAMP to excel in the STEM fields. Once we control for the selection effect we expect to find that the environment is much improved because of the presence of the KY-WV LSAMP. We continue to expand our counterfactual exploration to find factors that are not themselves determined by participation in the LSAMP and ask if the variation associated with those factors have had a positive or negative effect.

We do believe that the support constructs, and best practices policies implemented on the KY-WV Alliance campuses are having a strong effect on the academic performance of the LSAMP students specifically, and all other students at large. We believe that there is value added to each institution because of our KY-WV Alliance programmatic overflow, there is a rising tide effect such that all ships rise. All students on a given KY-WV LSAMP campus have access to these constructs such as the new University of Kentucky “Drop-in center” where they can obtain academic assistance and advice that is intended to improve their academic performance and keep them on track for baccalaureate degree realization. An initiative of particular vision and bold leadership is one that has commenced at Centre College by their extraordinary LSAMP leadership team, which is piloted by Centre College President John Allen Roush PhD, and strongly supported by Dean Stephanie Fabritius PhD, and the KY-WV Campus Coordinator Professor Preston Miles PhD. The Centre College initiative expands scholarship offers from two (2 the number offered in our initial year) to five (5) in efforts to attract more students from the KY-WV LSAMP community burgeoning populations. Given the concerns that are so prevalent relative to institutional budgets, this gesture broadcasts to the community that the KY-WV LSAMP effort at Centre College is one of paramount importance. It also serves as an exemplar for the types of support contributions that influences the KY-WV LSAMP agenda, positively, and would be appreciated by other KY-WV LSAMP Coordinators from their institutional leadership.
Additionally, Kentucky and West Virginia are both states that currently do not enjoy a codified statewide pre-college engineering or science program. To address this shortcoming several of the KY-WV LSAMP institutions have established pipeline/pathway constructs that reach out to middle and high school students and provide ancillary academic support. The most impressive of these are the C.A.R.N.E.G.I.E. - H.A.L.L. Institute initiated by Bluegrass Technical and Community College’s (BCTC) Vice President for Multicultural Affairs, Charlene Walker, bringing together intersections between Georgetown College’s Administrative leadership and staff, and the National Football League’s, Cincinnati Bengals. An additionally impressive effort is the STEM College prompted by the University of Louisville’s Vice President for Research, Pamela Feldhoff PhD, in partnership with the University of Louisville’s Office of Admission’s Phyllis Clark, Associate Director of Admission for Diversity, Woodford R. Porter Scholarship Coordinator and her colleague Dwayne Compton. Lastly, the summer 2008 Bridge Program for Rising High School Juniors, and seniors sponsored by KSU, which has begun to realize (through some of the participants in the summer program returning to become full time students at KSU) the primary objective of pipeline/pathway development. Professor T.S. Kochhar Ph.D. manages the KSU effort, and the summer Bridge Program is coordinated by Kazi R. Javed PhD, Associate Professor of Chemistry. Each of these efforts is innovative and/or produces the manufacture of students back to the sponsoring institutions, which is what we expect to see through our program efforts.

We expect the impact of the KY-WV LSAMP to be highly visible on the Alliance Campus and at the state and national levels. The participating institutions will celebrate the first two years in existence on August 15, 2008. We intend to share the advance borne out of the Program’s activities on all campuses with community, industry, state, and local officials through a celebration ceremony being planned for the two-year anniversary date.

C. KY-WV Alliance Supported Activities

1. H.A.C.U. Conference (BCTC)
Activity Description: Two Bluegrass Community and Technical College-LSAMP students attended the Hispanic Association of Colleges and Universities Conference in Chicago. They attended several informative workshops and networked with hundreds of other students and faculty from across the U.S.

Activity Goals and objectives: Assist in developing student leadership involving the Latino/Hispanic community students by providing opportunities for leadership workshops and skills through HACU for the BCTC campus.

Activity Outcome: Students gained information and knowledge from the experience. They brought info back to other students in the college.

2. Pre-Freshman Student-Faculty Collaborative Research (Centre)
Activity Description: Incoming first-year students will be involved in authentic scientific research under the close supervision of a faculty mentor.

Activity Goals and objectives: Students interests in science are stimulated. Their familiarity with campus and college life will be increased.
Activity Outcome: The science interests of participating pre-freshman students are reinforced. Their success as first-year students is enhanced.

3. Summer 2008 Bridge Program - Rising High School Juniors and Seniors (KSU)

Activity Description: These activities are designed to not only enhance student learning in science, math, engineering, and technology, but will also foster familiarity with current research and generate further interest in STEM disciplines.

Activity Goals and objectives: The main goal of the program is to motivate young students from underrepresented minority groups to pursue degrees and careers in STEM disciplines. This is done by:

1. selecting Kentucky high school minority students with superior academic standing for on-campus 3-week summer program to attend workshops, seminars, and field trips;
2. providing on-hand laboratory experience in sciences;
3. proving latest information on developments in STEM areas through special lectures;
4. providing opportunity to visit KSU aquaculture Center (program of distinction), KSU Land Grants laboratories, KSU Environmental Center, KSU Research Farm, State Game and Fish Park

Activity Outcome: Student participants:
- Gain knowledge about the need of well qualified personnel in STEM areas – nation wide
- Improve knowledge about the latest developments in Sciences
- Improve college skills
- Improve laboratory techniques
- Enhance ability to retrieve information from computer usage

4. KY-WV LSAMP Knowledge Café (UK)

Activity Description: The University of Kentucky established the “Knowledge Café” as a social, academic enhancement resource for peer-led tutoring, instruction, and study environment to help create a “sense of community” for STEM students on campus. Resources available in the center include laptops, a printer, study-guides, calculators, and dry-erase boards for group instruction. Tutoring is focused on STEM classes.

Activity Goals and objectives: Students will develop and enhance better study skill sets, become better acquainted with material in STEM classes, and will increase their network for group study sessions.

Activity Outcome: Produce better academically prepared students.

5. One-on-One, Research (UofL)

Activity Description: This was an intensive, 10-week, summer undergraduate research experience for LSAMP students.

Activity Goals and objectives: Provide a research experience in a department that offers a graduate degree in a STEM field.
Activity Outcome: One LSAMP student participated. Ms. Lecia Brown; mentored by Dr. Steve Ellis; Project: Investigating the molecular basis of the bone marrow failure syndrome, Diamond Blackfan anemia.

6. LSAMP Scholar Research (WKU)
Activity Description: Undergraduate research for three LSAMP scholars. One student participated in astronomy, another in chemistry and the third in the geological sciences.

Activity Goals and objectives: To introduce the students to original research under intense supervision.

Activity Outcome: The students learn the skills required in research including the presentation of results.

7. Weekly Meetings (MU)
Activity Description: The LSAMP students met as two groups just about every week. The first group is last year’s students that are funded by an EPSCoR grant that is dedicated to LSAMP students. There are 6 students in this group.

Activity Goals and objectives: The substance of the weekly meetings in this first group was to get updates on student research efforts, and find out what concerns these students had about school and life in general. These students have formed bonds within the science community here at Marshall and with themselves through LSAMP participation.

Activity Outcome: These students have formed bonds within the science community here at Marshall and among themselves through LSAMP participation.

8. Critical Thinking Seminars (WVSCTC)
Activity Description: Critical Thinking Seminars were offered to modify a student’s way of thinking particularly about STEM.

Activity Goals and objectives: These specialized educational classes were designed to help students in STEM make use of whole brain thinking.

Activity Outcome: Helped students understand the necessity to become aware of their thinking behavior and provided approaches to change their thinking processes to better accommodate a STEM curriculum at the college level.

9. MANNRS (WVSU)
Activity Description: This project consists of bi-monthly meetings to recruit and mentor university students, plan activities with middle and high school students, and attend seminars and workshops focused on STEM careers, research, and national scholarship opportunities.

Activity Goals and objectives: To explore opportunities that will improve retention, academic and financial support.
Activity Outcome: All current students participating in MANNRS are maintaining their enrollment in STEM majors at WVSU and some students received supplementary financial support.

10. Guaranteed 4.0 Seminar (WVU)
Activity Description: Guaranteed 4.0 Seminars worked with students to teach them study skills in a workshop setting five times throughout the semester and through coaching from faculty mentors.

Activity Goals and objectives: The goal of the program was for students to learn valuable study skills and earn a 4.0 Grade Point Average during the fall 2007 semester.

Activity Outcome: Seventy-eight students participated in at least one seminar. Forty-five participated for most of the semester. A variety of student groups, participated that included students in STEM fields, health science fields, and business fields. The average G.P.A of all students in fall 2007 increased 0.1 from the average G.P.A of all students in the spring 2007 with the STEM students increasing .23.

D. KY-WV Alliance Faculty/Staff Development Activities

1. Monthly Coordinator Meetings
Each of the institutions of the KY-WV LSAMP hosted a coordinator meeting at their campus, which presented a unique networking occasion. This meeting affords the Alliance members an opportunity to talk about concerns, problems, and activities. Here too is where the group can explore best practices, share ideas, resources and discuss faculty, staff, and student concerns. The monthly meetings build camaraderie amongst the KY-WV LSAMP family.

2. Board of Governor’s Meetings
As directed by NSF, the Governing Board consists of Provosts or Presidents of each of the member institutions, as well as other community/industry members. Dr. Lee Todd chairs the Governing Board. His role as the President of the University of Kentucky and the Principal Investigator of the program makes him ideal for this position. In this role, he holds annual meetings with the Principal Investigators or their designee of all the KY-WV Alliance schools and is able to raise important KY-WV LSAMP related issues as the KY-WV LSAMP formulates and implements its plans. The Governing Board had one meeting during the 2007/08 term.

3. Spring 2008 Promoting College Success WebCast (BCTC)
Promoting College Access and Success among Latino Males – An internet training session to suggest ways college recruiters and transfer staff can recruit and work with Latino males by building on students’ strengths. The program also helps to devise counseling programs for counselors from different backgrounds.

4. Guaranteed 4.0 Faculty/Mentor Training (WVU)
Donna O. Johnson presented the guaranteed 4.0 program to faculty and staff to prepare them for a semester long implementation of the program. The Training included approaches to activate the learning potential, manage stress, and insights to the classroom environment and the professor. It
familiarized the trainees with the Guaranteed 4.0 comprehensive learning system and provided understanding and insight into how to ensure that the program works for the students.

E. KY-WV Alliance-Interface with other Programs/Activities

1. 2007/2008 KY-WV LSAMP Partners
   - Kentucky EPSCoR
   - West Virginia EPSCoR
   - Georgetown College
   - UK College of Engineering
   - Cincinnati Bengals Football Organization
   - National Society of Black Engineers
   - UK President’s Commission on Diversity
   - “Bucks for Brains” Program
   - UK Center for Academic Resources & Enrichment Services (CARES)
   - UK Office of Student Multicultural Affairs
   - UK College of Engineering Development Office
   - West Virginia University Provost’s Office

F. KY-WV Alliance highlights (top four)

1. Student Research Symposium
   Activity Description

   The second annual Kentucky-West Virginia LSAMP Research Symposium was held on Friday, February 29, and Saturday, March 1, 2008 at the Radisson Plaza Hotel, Lexington, KY. Of the fifty-eight pre-registered individuals, forty-three attended. Of the ten alliance institutions, nine sent representatives. Approximately, eighty-five guests, including speakers, coordinators, mentors, and staff attended the symposium. Students from the-partner institutions presented their research in both oral and poster form. The students attended workshop sessions on interviewing skills, and attending graduate school. The participant breakdown is as follows:

<table>
<thead>
<tr>
<th>Institution/Affiliation</th>
<th># of attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass Community &amp; Technical College</td>
<td>6</td>
</tr>
<tr>
<td>Centre</td>
<td>2</td>
</tr>
<tr>
<td>Kentucky State University</td>
<td>3</td>
</tr>
<tr>
<td>University of Kentucky</td>
<td>9</td>
</tr>
<tr>
<td>University of Louisville</td>
<td>0</td>
</tr>
<tr>
<td>Marshall University</td>
<td>14</td>
</tr>
<tr>
<td>Western Kentucky University</td>
<td>3</td>
</tr>
<tr>
<td>West Virginia State University</td>
<td>5</td>
</tr>
<tr>
<td>West Virginia State Community &amp; Technical College</td>
<td>3</td>
</tr>
</tbody>
</table>
West Virginia University | 6
Winburn Middle School | 12
Southern Elementary | 1
Morton Middle | 1
Antioch Baptist Church | 1
KY EPSCoR office | 1
GEM Consortium | 1
NASA Goddard | 1
Quantum Talent | 1

| **Total** | **70** |

There were two oral presentations, six poster presentations and four individuals who did both an oral and poster presentation. The oral, poster, and dual presentation breakdown is as follows:

### Oral Presentations

<table>
<thead>
<tr>
<th>Individual/Team</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khyra Fullen</td>
<td>Marshall</td>
</tr>
<tr>
<td>Alexander Salazar</td>
<td>Marshall</td>
</tr>
</tbody>
</table>

### Poster Presentations

<table>
<thead>
<tr>
<th>Individual/Team</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santhi Chilukuri &amp; Avinash Tope</td>
<td>Kentucky State University</td>
</tr>
<tr>
<td>Marc Harik &amp; Loretta Kwan</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>Deysi Hernandez</td>
<td>Centre College</td>
</tr>
<tr>
<td>Dominic Lewis</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>Karen Petty</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>Michael Somuah</td>
<td>Kentucky State University</td>
</tr>
<tr>
<td>Catherine Bozio</td>
<td>University of Kentucky</td>
</tr>
<tr>
<td>Phylicia Brisco</td>
<td>Marshall</td>
</tr>
<tr>
<td>Jamar Grayson, Marvyn Grayson &amp; Brent Frederick</td>
<td>Marshall</td>
</tr>
<tr>
<td>Jahi Palmer</td>
<td>Western Kentucky</td>
</tr>
</tbody>
</table>

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Overall, the symposium received good reviews from all in attendance.

2. “STEMulating Emerging Minds” Recruitment Program

Activity description

The STEM Recruitment Program established at the University of Louisville to assist African American youth in their pursuit of holistic educational development in the Science, Technology, Engineering, and Math disciplines is called STEMulating Minds. The program intends to accomplish the goals of the KY-WV LSAMP through Synthesizing college awareness and preparation through a new educational opportunity that has been developed to expose students to targeted academic disciplines while providing them with supplementary college preparation resources and support throughout the junior and senior high school years. The moniker for this construct is the STEM College. Additionally, participating students will attend the activities sponsored by the STEM College on the main campus of the University of Louisville where they will engage in mock experimental learning components. Furthermore, there are complementary benefits to Stem College participants, which include:

- Learning about the STEM disciplines and related career opportunities
- Becoming an honorary UofL student for the duration of their participation
- Meeting and interacting with college students who will then serve as their STEM mentors
- Attending college classes and special events and engaging in student leadership and civic activities
- Participating in and assisting faculty with real time research projects
- Enjoying overnight stays in the UofL residence halls for selected program events
- Joining college student organizations
- Receive participation incentives and STEM “bucks” to spend on campus

The invitation to participate in the STEM College encouraged approximately 5000 African American rising high school juniors and their parents in the Jefferson County, City of Louisville area to act in response. Of those, 115 students and 97 parents responded affirmatively and expressed interest in a follow-up meeting. To date there are 44 students scheduled with interviews for entry. Indeed this effort exemplifies the UofL motto and challenges the STEM College participants to “DARE TO BE GREAT.”


Activity description

Challenging America, Re-engineering National Education Gains Including fresh Epistemology - Holistic Approaches to Learning and Leadership is the acronym for a powerful new approach to empowering young rising high school juniors to prepare for the rigors of a science, technology, engineering, and
The monthly population of mathematicians specializing in the next generation of mathematics and science such that they will affect the current generation of students and the next. Founded on the knowledge that one learns by doing the project posits that as each participant learns by doing a task repeatedly, practice makes perfect, no matter whether that task is charting the heavens or nailing shingles to a roof. As each one of the CARNEGIE HALL students practices and specializes in STEM activities they are empowered to trade the programs final product – the Burgeoning population human resource - with the KY-WV LSAMP institutions thus, we all become better off. How does one get to C.A.R.N.E.G.I.E.-H.A.L.L.? Practice, Practice, Practice!

The C.A.R.N.E.G.I.E.-H.A.L.L., objective is to create first class scientists, technicians, engineers, and mathematicians from the populations referenced, who are middle range educational performers. It is given that students who complete academic immersion during a summer and/or afterschool program dramatically improve their grades and standardized test scores. The program continues with a “high tech” mentoring component wherein the students have continuous access to their STEM mentors from the participating institutions via e-mail. Additionally, the students come together in “high touch” bi-monthly meetings where the students are challenged with STEM co-curricular materials and assignments. The students will also be paired with research opportunities in their communities. There is also additional benefit in that the participating students are encouraged to reach down and pull up middle school students from their communities. The initial recruitment effort reached out to students through the KY-WV LSAMP institutions and the Kentucky Community and Technical College System (KCTCS). These institutions brought forward fifteen students from all over the Commonwealth of Kentucky who made up the inaugural class of THE C.A.R.N.E.G.I.E.-H.A.L.L. Institute.

The students participated in an extensive immersion of mathematics, science, and most importantly communication and language skills, as well as many hands on activities.
4. **Science Technology Program**

Activity description

Pre-Freshman Mathematics and Chemistry courses we offered to LSAMP students at West Virginia University to prepare them for their first year at WVU. Students elect to take either a mathematics course along with an orientation class for seven (7) hours of college credit or a chemistry course along with an orientation class for six (6) hours of college credit. An introduction to the pace and expectations of college courses was included, to help students majoring in a STEM field, especially the ones that required a lot of mathematics, enter into calculus at the beginning of their college career. Student participants earned between six and seven credit hours toward graduation and completed a course in Mathematics or Chemistry. In addition, students gained a better understanding of study habits, college life, and a general sense of how to be successful in a STEM academic environment.

G. **KY-WV Alliance Accomplishments**

1. **Strategic Implementation and Management Plan**

Developed and disseminated the Strategic Implementation and Management plan for the KY-WV Alliance Institutions. The Strategic and Implementation plan is a detailed systematic procedure manual that addresses the goals and objectives for the KY-WV LSAMP. The document provides the core values for the Alliance, which include Motivation, Character, Holistic Development, Resourcefulness, Sustainability, Accountability, and Scholarly Virtues. The document further provides detailed directions for the campus coordinators in the procedure to accomplish the Alliance objectives with comprehensive matrices establishing where the output and outcome responsibilities rests in terms of individual campus administrations, coordinator’s offices and/or LSAMP Central office.
2. **Monthly Program Assessment Reporting Tool (PART)**

The LSAMP Central office developed a Logic Model/Theory of Action reporting tool with which to gather monthly input from the KY-WV institution coordinators. This tool formalizes our effort to help establish KY-WV Alliance benchmarks and/or readdress our efforts in directions that are better suited to achieve our Alliance and institutional goals; so that we can be sure that, we are in a position to assess our performance to ensure success of our efforts. The document assesses campus outputs and measures outcomes. We will use this tool to measure the efficacy of the institutional approaches to achieving the institutional goals and objectives and their relation to the KY-WV LSAMP program. We are also evaluating assessment methodologies that will distinguish the effectiveness of the LSAMP Alliance and institutional goals and objectives through the LSAMP Central Office.

3. **KY-WV LSAMP Central Office Activities**

In addition to being the Arbiter of constructs designed to build, and institutionalize academic and financial support infrastructure for the ten KY-WV Alliance institutions and the communities they serve the KY-WV LSAMP Central Office has been a resource to the communities by being involved with community, state and national concerns, that include:

- Member of UK the President’s Commission on Diversity
- Guiding Coalition Affiliate of the Georgetown College Diversity Steering Committee
- Associate of the Lexington Fayette Urban County Government/University of Kentucky (LFUCG/UK)Martin Luther King Holiday Committee
- Member of the UK “Bucks for Brains” Scholarship Advisory Committee
- Constituent of the NSF’s MS/PHD program Advisory Committee (University of South Florida)
- Member of the Bluegrass Multicultural Affairs Advisory Committee
- Member of the Latin American and Caribbean Consortium of Engineering Institutions (2007)

**Presentations:**

- The Kentucky Community and Technical College System – Diversity Director’s Peer Mentoring Team
- The University of Louisville Upward Bound Program,
- Keynote for the Third Annual African Cultural Expressions and Celebration of Our Youth Conference (ACE/ICY)
- Office staff has been responsible for making presentations to several schools, civic organizations, churches and other grassroots organizations.

**Participant**

- Kentucky Girls Stem Collaborative
- Inaugural member (70) of the Medici Summit (new kind of executive training program designed to educate, illuminate, and inspire breakthrough insights at the connections of fields, disciplines and cultures that are applied to the STEM enterprise for LSAMP. Shared KY-WV LSAMP
information with other conferees from across the United States and several other countries including Costa Rica, Ecuador, France, Germany, Mexico, Singapore, Sweden, and the United Arab Emirates

H. KY-WV Alliance Obstacles

1. Financial Aid Issues
The major Alliance obstacle given the restrictions in terms of how the LSAMP grant funds may be expended is common today in many areas around the nation, and powerfully affects our Alliance. Due to the actions of the Kentucky Commonwealth’s General Assembly, the state funding for public colleges and universities has been cut and in the state of Kentucky, for example, is less than the current year (FY08) budget, which already received a 3 percent cut earlier this year. This measure retards the contribution that we would otherwise expect to leverage from the state in the form of scholarships for students that would allow the LSAMP to build structural elements that allow for the management of performance and infrastructure development. The budget cuts have a similar effect on travel, which can often lead to interactions with possible funding sources that allow the expansion of the program support base with subsidiary funding. Additionally, ancillary support for items like books, equipment, and study aids, for operations such as our LSAMP drop-in centers, and minor elements approximating refreshments for recruitment activities, extended study, or training sessions is severely limited. The budget cuts also preclude the KY-WV Alliance from providing as much student travel assistance or of having the ability to implement new support constructs in a timely fashion. Additionally, the tuition increases approximately four times faster than the rate of inflation and the growth of Kentucky’s median family income. A recent Lexington Herald-Leader newspaper story according to a report by the Education Commission of States, drawing on research from other higher education organizations, “the purchasing power of the Pell Grant decreased by half, and more importantly loans have supplanted grants as the primary form of financial aid for postsecondary students.”

To attempt to remedy this state of affairs for our Alliance Institutions the KY-WV LSAMP intends to redouble its effort to conscript additional corporate and philanthropic funding through untraditional intersection building. The LSAMP Central Office will work with Development Offices at each institution to ensure inclusion in opportunities from their contact for funding for the LSAMP and STEM enterprise.

2. Board of Governor’s Meetings Issues
The KY-WV LSAMP has difficulty coordinating meetings with the ten institutions involved. There is a time issue in terms of identifying availability for all involved. We continue to work with each institution to ensure that there is adequate representation and input from each institution.