

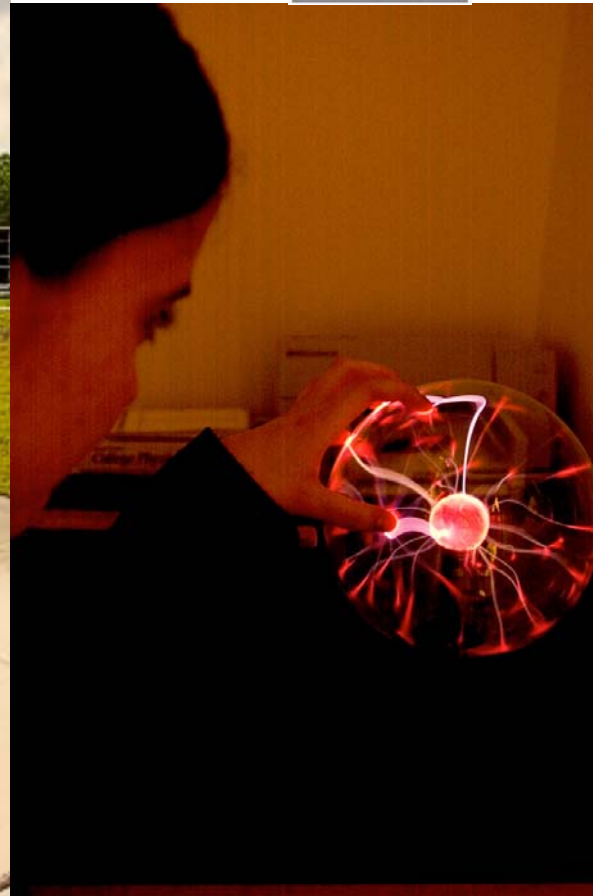
Agency Name S.C. Governor's School for Science & Mathematics

Date of Submission September 15, 2008

Agency Director Dr. Murray Brockman, President

Agency Contact Person: Mr. Ernie Boyd, VP for Finance & Operations

Agency Contact's Telephone Number (843) 383-3906 Email: Boyd@gssm.k12.sc.us



**S.C. Governor's School for Science & Mathematics  
2007-2008 Accountability Report**

**Continuing Excellence in Unfinished Facilities:  
Building Toward Growth**

September 15, 2008

Mr. Les Boles, Director  
Office of State Budget, Budget & Control Board  
1201 Main Street, Suite 950  
Columbia, SC 29201

Re: 2007-2008 Accountability Report

Dear Mr. Boles:

It is a pleasure to submit the 2007-2008 Accountability Report for the South Carolina Governor's School for Science and Mathematics (GSSM).

This report covers another extraordinary year:

- Named one of the TOP TEN high schools in the nation by *Newsweek Magazine*
- Completion of funding needed to finish our building and allow growth in 2010
- Record % of graduates attending in-state Universities

To maximize the benefit from every dollar we spend to educate our students, GSSM is dedicated to incorporating quality management principles and innovation along with public-private partnerships into every facet of our operation. Through the support of hundreds of South Carolina businesses, the GSSM Foundation has provided funds for the second straight year (for this report period) from an endowment designed to add to the excellence of our programs through state-of-the-art equipment and support. We have come a long way in striving toward and reaching ever-higher standards for student achievement during the past twenty years. We are looking forward to forging additional opportunities for bright, hard-working South Carolina students through expansion once our school building is complete. We are deeply grateful for this display of continued support from the General Assembly and the Governor, to include all capital funds required to complete our building for opening in 2010. We look forward to working with the General Assembly and [the](#) Governor to secure the operating funds to place additional South Carolina students in our expanding residential and outreach opportunities beginning in 2010.

As a small agency, we at GSSM regularly use internal staff work, Board reviews, and customer (parent, student and business) input to review and refine our vision and our mission. We set goals, define metrics, and reassess programs, policies and procedures. In order to best deploy our resources to meet our goals, we use a collegial committee structure involving both internal and external organizations, public and private. GSSM designs programs based on a challenging standards-based curriculum to meet identified needs.

The quality management principles detailed in this report have led to GSSM being nationally recognized as one of the premier schools in the nation three years in a row as measured by the success of graduates of our programs.

These long-term successes have arisen from a compelling vision coupled with annual objectives and associated performance indicators. These indicators include: test scores and other academic measures; scholarships offered and accepted; comparisons with benchmark residential schools in other states; the extremely high recruiting priority universities place on our graduates; demand for our outreach services; and the support of business and industry in helping GSSM provide advanced educational opportunities. The steady increase in stature of the school has created the need to expand our student body into purpose-built facilities.

GSSM is also now into its eighth year of integrating information developed in conjunction with the Education Oversight Committee (EOC) – the school report card system. We proudly report that GSSM continues to maintain excellence in all categories.

Thank you for your time regarding this report and I will be happy to provide additional information and ask that if you have any questions, please call me.

Sincerely,

Dr. Murray W. Brockman  
President

## **Section I – Executive Summary**

### **1. Mission and Values**

#### **Mission and Values Statement**

#### **South Carolina Governor’s School for Science & Mathematics**

The purpose of the South Carolina Governor’s School for Science and Mathematics (GSSM) is to offer the most academically able students of this state a learning environment that strengthens their ability to think critically, stimulates the joy of learning, and fosters the excitement of discovery through scientific research.

GSSM broadens the horizons of the mind, expands intellectual and personal growth, and cultivates the uniqueness of each student. The School builds a strong sense of community among students, faculty and staff in a residential setting.

Emphasizing science, mathematics, and technology, the Governor’s School for Science and Mathematics is an educational resource, which serves the State of South Carolina as a model for academic excellence and provides a diverse range of outreach programs and partnerships.

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## I.2. Major Achievements from past year

### **Major Achievements, Status: FY 2007-2008 Accountability Report SC Governor's School for Science & Mathematics (GSSM)**

Repeatedly recognized nationally for excellence, most recently as one of the top ten high schools in the nation by *Newsweek Magazine*, GSSM advances academic achievement throughout South Carolina by offering comprehensive residential and exemplary outreach programs for students and teachers.

### **S.C. Governor's School for Science & Mathematics: Metrics, Benchmarks & Highlights**

#### ***GSSM RESIDENTIAL PROGRAM***

- GSSM residential **students** are 50% male, 50% female, and 21% minority, and **represent 35 of South Carolina's 46 counties and 83 high schools across the state**. They are selected on merit, including academic talent, interest in science and mathematics, and strong character.
- GSSM has earned **Palmetto Gold** with an “**Excellent**” rating on the SC Annual School Report Card every year.
- An average of **53%** of graduates **attend college in SC, including 69%** of the Class of 2008. About **50%** of GSSM alumni **seek careers in S.C.**, working as teachers, doctors, scientists, engineers, computer scientists, and lawyers.
- Strong academic performance is a hallmark of GSSM students. In 2008, seniors led the state again with an **average SAT score of 1383** (The SC average was 985, and the national average was 1017). **Thirty-seven seniors** have been recognized by the **Advanced Placement** program with distinctions ranging from Scholars to National Scholars. **Bella Wang** and **Junda Chen** were awarded the **National Siemens AP Award** for perfect scores on 7 or more AP exams in the sciences and math categories.
- The Class of 2008 led the state with **57% of the class being recognized by the National Merit Competition for excellence with fifteen students (24% of the class) named as National Merit Finalists** and **five students named as National Achievement Finalists**. In the Class of 2008, there were **57 Palmetto Fellows**, and **all 61 seniors** qualified for the **Life Scholarship** offered by the state. The Class of 2008 received over **\$10.9 million** in scholarship offers.
- Our **nationally recognized mentored research program** for rising seniors, which is open to all South Carolina students and required for GSSM students, continues to establish new benchmarks. Over the past several years, GSSM students have won numerous awards for research presentations at SCJAS, MUSC's Undergraduate Research Day, and as **Intel Science Competition National Semifinalists**. One student represented a poster at the Biomedical Engineering Society Annual Fall Meeting in Los Angeles, CA. Another student was selected to present her research poster at the 74<sup>th</sup> Annual Meeting of the Southeastern Section of the American Physical Society in Nashville, TN. Several students have been cited as co-authors on articles published in peer-reviewed scientific journals and several 2008 seniors were selected for **MUSC's and Clemson's Summer Undergraduate Research Programs** to continue their research.

- The **GSSM Math Team** has earned one of the **top ten ranks in the nation** for five of the **last 8 years** in the **Phi Alpha Mu National Math Competition**. In 2008 **Junda Chen** was recognized by the American Math Council for scoring in the top one percent of students in the nation on the national math exam. The **GSSM CHESS TEAM** has won the **state title 11 of the last 16 years!** The **GSSM Quiz Bowl team ('07)** won the **state championship**
- **Extracurricular activities** continue to shine. **Jordan Floyd, Class of '08** was elected Lieutenant Governor of South Carolina at the **2007 Youth in Government Conference** at the Statehouse in December. **GSSM Chorus' Spring Concert** was very well received as well as the new **Gospel Chorus**. **Three** students earned chairs in the **All-Region Band**. Each year, student musicians at GSSM earn All-Region or All-State honors. The **volleyball team** won or was runner up for the **Region VII title for the past four consecutive years**. For two of those years, the S.C. High School Sports League has named **Dr. Mark Godwin** the **Regional Coach of the Year**. The **GSSM Cross Country team** placed **third** in the **region**, with **three state qualifiers**. **Whitney Tucker** and **Luke Rogers** made **All-State** in **tennis**, and the **boy's tennis team** won the **1A Region**. The **GSSM Swim Team** had **8 state qualifiers** and the **2008 GSSM Track Team** produced **5 state qualifiers** and **won the 1A region**. The **Eagle's soccer team** won the **region** and made it to the **Lower State Championship**.
- **GSSM alumni** continue to demonstrate excellence in both academics and leadership at the college level. **Sixteen GSSM alumni were named Goldwater Scholars** over the past 13 years at Clemson, USC, Furman, and the University of Georgia. In 2007, the **Student Government President** (Stephen Gosnell, '03) at **Clemson University** and **NC State** (Will Quick, '03) were both GSSM alums, while Charleson Bell, '03, was voted one of the top 10 seniors at Vanderbilt University and held the position of **Speaker of the Senate**.
- **GSSM Faculty**, all holding **advanced degrees**, continue to receive significant recognition. **Dr. Flannagan** and **Mr. Coleman** received the **top award** from the **College Board** for the **highest 2007AP English Language and Composition scores** for schools of our size. Biology Instruction: **Dr. Bill Alexander** was recognized by the **Carolina Sandhills Wildlife Refuge** for his 20 years of service, and his renowned bird photograph collection will soon become a permanent link on the county tourism website. **Dr. Kurt Wagner** received national recognition as **South Carolina's AP Teacher of Excellence** from the Siemens Foundation and the College Board. **Mr. Randy LaCross**, Director of the GSSM Center for Excellence, contributed to a presentation made last spring in New Orleans at the National Association for Research in Science Teaching (NARST) Annual International Conference 2007. Ms. Demetria Atkins, SC GEAR UP and Professional Development Coordinator, was selected as one of eight team members to work on the State Department of Education's Division of Standards and Learning Standards Support System Physical Science Curriculum Project. **Mr. Ike Coleman's** poetry appeared in Windhover and **Dr. Flannagan's** essays appeared in the Dictionary of Literary Biography. French Instructor, Dr. Lollie Eykyn was **one of five French teachers in S.C. to review examinations** required for state certification for new French teachers.

## **GSSM CENTER FOR EXCELLENCE – STATEWIDE OUTREACH**

- The **Summer Science Program** completed its **19<sup>th</sup> successful year** bringing 324 rising 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> graders from around the state together to study robotics, crime scene investigation, digital electronics, and many more science-based courses. The number of students **supported by scholarships** exceeds **30%**, thanks to generous support from businesses through the GSSM Foundation.
- GSSM Outreach hosted **math teachers** from **17 SC GEAR UP** high schools for a 2 week **Summer Mathematics Institute** on our campus as well as three **Physical Science Companion Workshops** in July with 31 teachers attending, representing nine high schools and nine school districts. GSSM hosted its first ever **summer camp for elementary students** in July with eighty campers participating in the Camp Invention® *IMAGINE* program, a week-long day camp that highlighted art, the environment and space. Through a grant from the Toyota Foundation USA, GSSM will introduce a new Outreach Center program called Portable Advanced Science Exploration (PASE). Over 5,000 middle and elementary students will academically benefit from the above activities each year.

## **GSSM FOUNDATION**

Our strong and active Foundation organizes the support of hundreds of businesses from all across the state in support of sustaining excellence at GSSM. Foundation financial support is especially targeted to "above and beyond" state support.



### **I.3. Key Strategic Goals for Present and Future Years**

#### **Summary Description of Strategic or Long-Term Goals:**

Our strategic goals provide for the following:

- 1) Maintain the excellence that is the hallmark of each GSSM program
- 2) Use funds efficiently and effectively
- 3) Open GSSM's complete facilities in 2010-2011 school year & expand programs: Fund Growth in Three Stages, starting in 2009-2010.

#### **Strategic Goals**

1. Continue and strengthen residential and outreach programs, enhancing excellence and meeting opportunities statewide
2. Occupy Phase One of GSSM's New Campus in August 2003 - Accomplished.
  - a. Obtain funds to outfit and occupy New Campus - Accomplished
  - b. Finalize Phase 2 Funding - Accomplished
  - c. Finalize Furniture, Fixtures & Equipment requirements and support appropriations request - Accomplished for Phase I
3. Double the size of the student body and faculty while maintaining or improving quality and minority enrollment - Underway
  - a. Oversee completion and integration of Phase II facilities - underway
  - b. Analyze curriculum alternatives – AP, IB, private schools, other. How are we unique?
  - c. Use the expansion opportunity to review and upgrade curriculum
  - d. Define enhanced math/computer science & technology offering(s)
4. Spearhead efforts toward leadership in South Carolina science and math education via our outreach programs - Underway
  - a. Uncover grant opportunities – especially in teacher training – Obtained six-year Federal Gear UP Grant through CHE partnership starting in 2006-07. Obtained \$200,000 Toyota Grant (2008) to enhance middle school academics.
  - b. Expand summer research coordination with higher ed partners: Added College of Charleston & MUSC, Furman and Francis Marion University
  - c. Partnership with Science South to reach middle school teachers & students to improve science/math - accomplished
5. Enhance the profile of GSSM across the state - Underway
  - a. Establish role in SC state initiatives to improve science and math education - Ongoing
  - b. Establish role of parents in the school vision
  - c. Create targeted communications plan for internal and professional implementation - Ongoing
6. Continue to focus on the development of high character and exceptional skills in our students – Accomplished/Ongoing
  - a. Evaluate honor codes at other schools
  - b. Review & revise handbook and emphasize principles

**I.4. Opportunities and Challenges** that may affect the agency’s success in fulfilling its mission and achieving its strategic goals (This establishes the basis for the agency’s budget request).

**I.4.a Opportunities:**

1. By providing advanced facilities equal to the quality of the faculty and students, GSSM can keep our programs on the cutting edge of science and technology to enhance the growing knowledge economy in partnership with the research universities
  - a. Now that Phase II campus completion is funded, we are building state-of-the-art laboratory facilities for instruction and expand residential out outreach programs beginning in 2010 when complete building opens
  - b. Advanced laboratories will enhance our students’ preparation to compete globally in scientific research.
  
2. Maintain and extend quality GSSM programs’ reach and depth to a “critical mass” of students and teachers, both residential and outreach.
  - a. When Phase II is completed in 2010, GSSM’s new campus will have space for up to 300 of the state’s brightest and most-motivated students to participate in the intensive full immersion of our leading-edge residential program. This larger number will provide opportunities for even more students from every corner of South Carolina to participate. Today, we turn away two out of every three applicants.
  - b. When completed, the campus will also be able to host educational conferences impacting thousands of additional students (grades 7-12) annually through workshops, teach-training, seminars and course-work.
  - c. Grant requests are researched and submitted to fund high-quality courses to enhance academic achievement statewide. GSSM developed and obtained (with partners) a Federal Grant (GearUP) to help teach middle school teachers in the sciences. This grant more than doubled teacher participation with the addition of successful Mathematics Institutes held at the Governor’s School. Following our philosophy of building partnerships in order to leverage resources, this grant is part of the larger program involving CHE, school districts, and the business community through the State Chamber of Commerce. Other grant opportunities are being developed.
  
3. Grow the knowledge economy and enhance quality of life throughout South Carolina by providing a larger homegrown supply of high-quality engineers, scientists, doctors, and other professionals who have a strong predilection to seek higher education and then employment in South Carolina Develop curriculum in Finance & Economics to support the knowledge economy.
  
4. Raise the pride and awareness South Carolinians have in their young scholars – by more extensively communicating the national and world-level achievements our students are producing through challenging GSSM programs – both residential and outreach. Awareness campaign begun several years ago is underway & expanding – with articles appearing in business journals and newspapers, direct mail and even some donated billboards across South Carolina.

#### **I.4.b. Key Strategic Challenges for 2007-2008:**

1. Unfinished campus puts growth on “hold” until building can be completed. GSSM now operates without dedicated classrooms or labs and no assembly, gymnasium, presentation or project assembly spaces. These un-built facilities are at the “heart” of GSSM’s academic programs. (See diagram on next page.)

Answer: Capital construction funds approved (\$14,926,031) to build the quality laboratories, classrooms and factitively/presentation areas for the new campus. Construction in process with completion set for early 2010.

- a. Incomplete campus puts programs on “hold” until building is complete.
    - i. No presentation space limits educational conferences, teacher training
    - ii. No gymnasium harms recruitment, reduces effectiveness of wellness model
    - iii. Opportunities for exceptional students in science/math are stunted
    - iv. Electives and new curriculum initiatives limited at current faculty/student size
    - v. Recruitment and retention of stellar faculty more difficult without complete facilities
    - vi. Design and assembly of large-scale engineering projects in prevented
  - b. Our current small size inhibits expansion of the curriculum into critical areas we want to introduce into advanced high school instruction
    - i. Finance and economics, hands-on engineering, Asian language instruction and computer science must be developed as national models for early instruction
    - ii. With business and university partners, we must explore international research partnerships
2. Misperception that science and mathematics are not a state education priority – that South Carolina’s economic future does not rest on a highly sophisticated knowledge economy. Also, a misperception that GSSM is a local school, not a statewide resource that helps students from every corner of South Carolina – and therefore an institution that deserves statewide support.

**I.5 How the accountability report is used to improve organizational performance.** Review and compilation by senior staff challenges assumptions about current and future priorities, services, allocation of resources, necessity for measurement and testing validity of data.

## S. C. Governor's School for Science & Math: Master Campus Plan - Phase I & II

### Phase I: Opened in August 2003

- Residential Space for up to 300 Students
- Dining Facilities
- Counseling, Arts, Student Support Facilities - Temporary Classrooms
- Faculty and Support Staff Offices

### Phase II: Opening in 2010!

- Academic Center:
  - Advanced Classrooms
  - Advanced Laboratories
- Student Activities Center



## Section II – Organizational Profile

### II.1 Description of main products and services

Increase academic achievement by providing advanced and challenging academic courses and experiences, with an emphasis on science, mathematics and technology, to qualified students and teachers in South Carolina. GSSM features two distinct, yet complimentary, program areas:

- a full-time Residential Program for 11<sup>th</sup> and 12<sup>th</sup> graders and
- statewide outreach programs from elementary through high school.

### II.2 Key Customers

<b>“CUSTOMER”</b>	<b>“PRODUCT” CONSUMED</b>	<b>KEY NEEDS</b>	<b>METRICS</b>
Residential Students, Grades 11-12	Advanced coursework, Full-immersion residential program	Advanced curriculum, Flexible offerings, College preparation, Faculty w. adv. degrees	College admissions, Adv. placement, Scholarship offers, Subject mastery
Middle & High School Students (7 <sup>th</sup> grade, 9/10 & 11/12)	GearUP Teacher Training (I-95 corridor) -Summer Science Program -Summer Program for Research Interns (Mentored Research)	Advanced curriculum, broad-based offerings, capable and flexible instructors	Number of students, number of schools served, number of disadvantaged schools served
Parents	Students’ education and character development, Student safety and well- being, support	Adv. Curriculum, Student Community service, security	College placement, scholarship offers, safety/security metrics. Articulation agreements with USC/Clemson
South Carolina Science and Math teachers	-Support of academic achievement, standards, menu of opportunities in science & math for students Non-standard certification, Re- certification, content development	Advanced course content, student content programs, certified courses, instruction assistance	Number of teachers and students participating and supported through Outreach efforts, results.
South Carolina school principals and superintendents	-Enhance & advance interest and achievement in science/math tracks, -Opportunities for teachers & students -Comparative benchmark for curriculum offerings	-Recognition of their essential role in a student’s development and achievement -Data to enhance reporting requirements	Return of SAT scores, other tracking indicators, inclusion in announcements, inclusion in Outreach efforts
South Carolina colleges	Advanced students	Highly prepared, able	Attendance in SC

and universities		and motivated students	universities.
SC business community	-Advanced college grads -Enhanced State reputation for academics to help recruit/retain professionals.	In-state grads	Graduates conducting their profession in state
SC general public	-Advanced college grads -Pride in academic success of our high school students	-Advancing economy -Enhance quality of life	-Enhance knowledge economy -Perception of pride in education

### II.3 Key Stakeholders:

1. S.C. Schools and School Districts provide students, teachers, partnerships and support.
2. S.C. Universities rely on GSSM for talented science and mathematics students
3. S.C. parents provide students and form a key partnership for success
4. S.C. businesses rely on GSSM to develop science and engineering talent

### II.4 Key Suppliers (viewed also as partners & stakeholders)

1. S.C. Schools and School Districts provide students, teachers, partnerships and support.
2. S.C. Universities provide GSSM with instructors, mentors, and other resources.
3. Coker College: Provides majority of leased facilities (chemistry labs, limited athletic fields/courts, gymnasium)
4. S.C. parents provide students and form a key partnership for success
5. State Engineer's office provides expertise for capital construction
6. State offices available to us and other state agencies, e.g. State Budget and Control Board for management support (procurement, capital projects), State Department of Education for personnel/finance administration, etc.

### II.5 Operations location(s)

Primary facilities: GSSM's partially completed new campus, Phase I – opened August 2003. Even in the face of severe and ongoing budget reductions, GSSM successfully re-located - lock, stock and barrel - from previous all-leased facilities to our new "purpose-built" Campus.

- Student support and office space
- Temporary classrooms
- Temporary laboratories (except chemistry, see below)
- Dormitory facilities
- Dining facilities

Secondary Facilities: Leased chemistry laboratories from Coker College and athletic gym/courts not available in Phase I: \$55,000 per year lease.

Outreach Sites: Various around state including: 20+ schools along I-95 corridor (GearUP project). State Research Universities and industrial labs for advanced mentored research (SPRI)

GSSM in 2007-08 continued successful operations of Phase I facility – following its opening in 2003. After years of planning, GSSM successfully completed construction and outfitting of Phase I: detailing and purchasing all new systems including phone, fiber-optic network, cabling, dining hall equipment, dormitory furniture, trash cans, alarm systems, computerized zoned door locks using magnetic swipe cards, security including camera systems, maintenance, laboratory furniture and equipment, IT, packing and moving.

Future Facilities Required, now with all capital construction funding appropriated. Complete Master Campus Plan by building Phase II of Master Plan. Phase II contains specialized laboratories, classrooms and student activity space. Timeline for opening Phase II: 2010! Expansion of student body cannot occur until Phase II is built. Student body growth cannot occur until Phase II is built and operational.

The complete master campus (shown in rendering next page) includes both Phase I and Phase II.

## S. C. Governor's School for Science & Math: Master Campus Plan - Phase I & II

### Phase I: Opened in August 2003

- Residential Space for up to 300 Students
- Dining Facilities
- Counseling, Arts, Student Support Facilities - Temporary Classrooms
- Faculty and Support Staff Offices

### Phase II: Opening in 2010!

- Academic Center:
  - Advanced Classrooms
  - Advanced Laboratories
- Student Activities Center





II.6 Number of Employees: Full-Time State: 32.00  
Classified: 12 (FTE)  
Unclassified: 19 (FTE-mostly faculty)

For efficiency and cost containment, GSSM uses contractual services when appropriate. Examples include dining services, security guards and janitorial services.

#### II.7 Regulatory environment under which organization operates.

As a state agency, GSSM operates under the laws and regulations of the State of South Carolina, and within Federal regulations pertaining to student information.

#### II.8A Performance Improvement System:

- a. Customer needs and expectations: Identification (parents, students, teachers, educational partners, prospective candidates for programs), data gathering and review (interviews, surveys, and review of metric benchmarks including applications, test scores, scholarship awards and growth into further advanced educational settings).
- b. Financial, regulatory, societal and other potential risks: GSSM conducts comparative analysis of similar institutions on a regular basis.
- c. Human resource capabilities and needs. GSSM conducts formal and informal comparative analysis of similar institutions on a regular and ongoing basis, including compensation and staffing models.
- d. Operational capabilities and needs. GSSM conducts formal and informal comparative analysis of similar institutions on a regular and ongoing basis and weekly reviews short term results and needs. Consult with other agencies and supervisory agencies regularly.
- e. Supplier/contractor/partner capabilities and needs. GSSM collects and reviews feedback from suppliers and partners on quality of current and potential for future improvements and programs.

Administration conducts periodic strategic planning process involving all functional areas and input/direction from GSSM Board of Trustees, reviews data and takes initiatives to improve results.

What are your key strategic objectives? (Address in Strategic Planning Chart). See Section III, Category 2 and Strategic Planning Chart.

II.8.B GSSM develops and implements priorities on an ongoing basis with regular internal meetings and a formal process with our Board of Trustees. Metrics are identified, tracked and reviewed. (See EOC Report Card, page 33, Section 7.)

- a. What are your key action plans/initiatives? See Section III, Category 2 and Strategic Planning Chart.
- b. How do you communicate and deploy your strategic objectives, action plans and performance measures?

Through Board reports, monthly reports to all Faculty/Staff and administrative reports such as the State Budget Request, State Activity Inventory and this report.

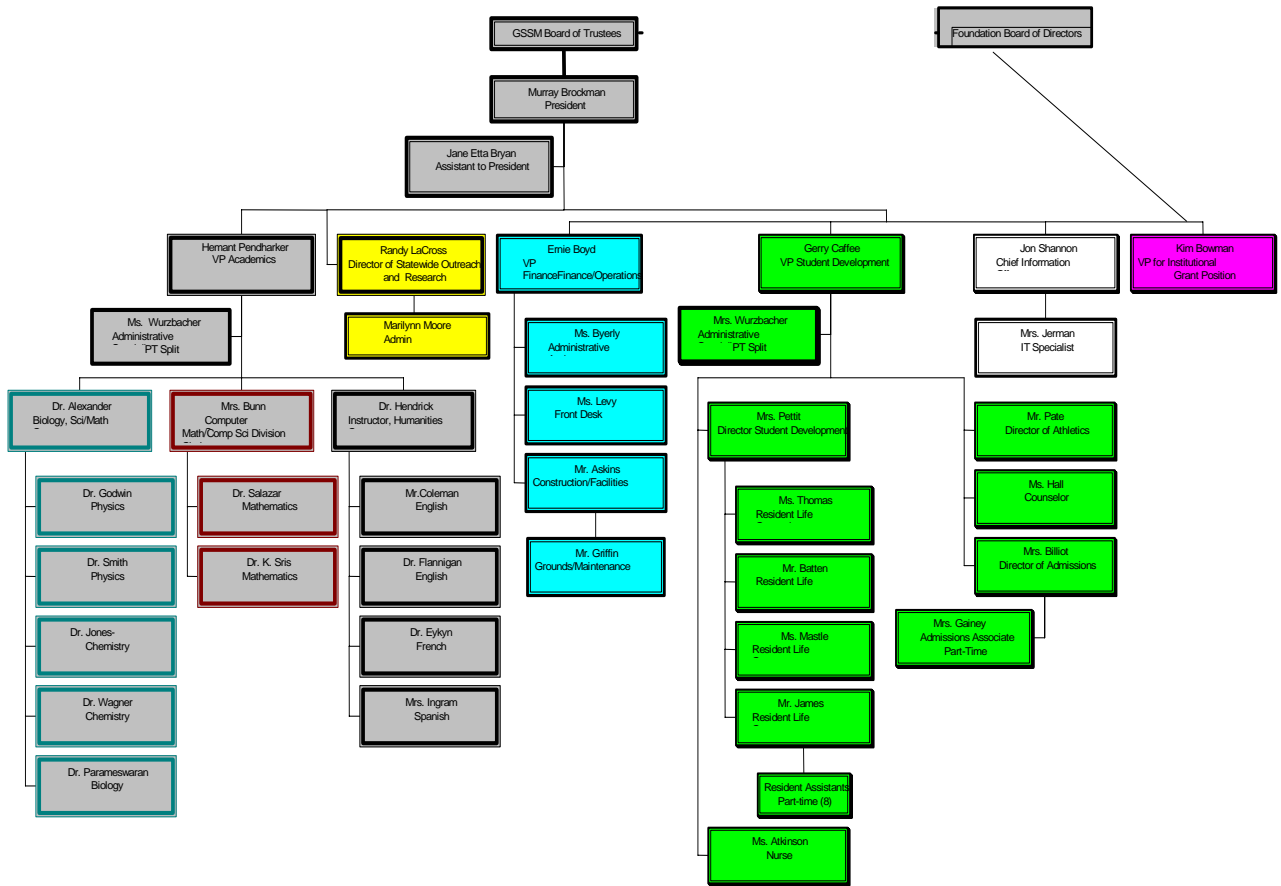
## II. 9 Organizational Structure

GSSM utilizes a “tiered” organization structure, but with open communication between all levels. (See attached organizational chart.) Our governing Board of Trustees, with a school president and four vice-presidents responsible for primary functional areas, lead GSSM’s structure. Resource responsibility and authority (both personnel and financial) is placed in the hands of those working most closely with our key customers.

To leverage resources and results, GSSM focuses on a “partnership” model; designing and building programs based on identified needs and shared resources.

On the following page is GSSM’s organizational Chart as of January 2008. It shows the creation of both a Computer Science/Mathematics Division within academics and the addition of a Chief Information Officer position.

S.C. Governor's School for Science & Mathematics – January 2008



II.10 Expenditures/appropriations chart

**Accountability Report Appropriations/Expenditures Chart**  
**Base Budget Expenditures and Appropriations**

Major Budget Categories	FY 06-07 Actual Expenditures		FY 07-08 Actual Expenditures		FY 08-09 Appropriations Act	
	Total Funds	General Funds*	Total Funds	General Funds*	Total Funds	General Funds*
Personal Service	\$ 1,851,566	\$ 1,639,066	\$ 1,898,638	\$ 1,686,138	\$ 1,962,571	\$ 1,750,071
Other Operating	\$ 1,985,536	\$ 1,506,536	\$ 2,163,610	\$ 1,684,610	\$ 2,131,142	\$ 1,652,142
Special Items						
Permanent Improvements						
Case Services						
Distributions to Subdivisions	\$ 13,200		\$ 13,200		\$ 13,200	
Fringe Benefits	\$ 432,378	\$ 390,578	\$ 441,416	\$ 399,616	\$ 441,416	\$ 399,616
Non-recurring						
<b>Total</b>	<b>\$ 4,282,680</b>	<b>\$ 3,536,180</b>	<b>\$ 4,516,864</b>	<b>\$ 3,770,364</b>	<b>\$ 4,548,329</b>	<b>\$ 3,801,829</b>

>\*Includes \$150,000 earmarked & required for Master Lease re-payment for campus Furniture, Fixtures & Equipment purchased in 2003 with opening of Phase I Building.

>Tracks Activity Inventory report data

**Other Expenditures**

Sources of Funds	FY 06-07 Actual Expenditures	FY 07-08 Actual Expenditures
Supplemental Bills	\$ 352,811	\$ 64,042
Capital Reserve Funds	\$ 92,000	
Bonds		

IT Support One-time

H65 (SDE) serves as GSSM's fiscal agent.

II.11

II. #11 Major Program Areas

Program Number and Title	Major Program Area Purpose (Brief)	FY 06-07 Budget Expenditures	FY 07-08 Budget Expenditures	Key Cross References for Financial Results*
#1 (813)	Academic Instruction	State: 1,542,850.00 Federal: Other: 57,429.00 Total: 1,600,279.00 % of Total Budget: 37%	State: 1,691,465.00 Federal: Other: 82,441.00 Total: 1,773,906.00 % of Total Budget: 39%	EOC Report Card (III.7.1a, page 32) SAT Averages (III.7.2, p. 31) Faculty Qualifications: Report Card, p 30
#2 (814)	Life in Residence	State: 1,366,038.00 Federal: Other: 142,782.00 Total: 1,508,820.00 % of Total Budget: 35%	State: 1,392,221.00 Federal: Other: 142,782.00 Total: 1,535,003.00 % of Total Budget: 34%	EOC Report Card (III.7.1a, p32) Major Achievements p. 6-7. Program Demand, p 35.
#3 (815)	Statewide Outreach/Research	State: 352,045.00 Federal: Other: 532,589.00 Total: 884,634.00 % of Total Budget: 21%	State: 392,742.00 Federal: Other: 521,277.00 Total: 914,019.00 % of Total Budget: 20%	Major Achievements p 6-7. Program Demand, p. 36. Partnerships, p 35-37. Workshops & Participants
		State: Federal: Other: Total: % of Total Budget:	State: Federal: Other: Total: % of Total Budget:	
		State: Federal: Other: Total: % of Total Budget:	State: Federal: Other: Total: % of Total Budget:	

**Below: List any programs not included above and show the remainder of expenditures by source of funds.**

a) Administrative support (detail through Activity Inventory Loads to match categories # (816). Data tracks Activity Inventory for FY to include Other fund balance.

<b>Remainder of Expenditures:</b>	State:	275,247.00	State:	293,936.00
	Federal:		Federal:	
	Other:	13,700.00	Other:	
	Total:	288,947.00	Total:	293,936.00
	% of Total Budget:	7%	% of Total Budget:	7%

\* Key Cross-References are a link to the Category 7 - Business Results. These References provide a Chart number that is included in the 7th section of this document.

## **Section III – Elements of Malcolm Baldrige Award Criteria**

### **III.1 Category 1 – Senior Leadership, Governance and Social Responsibility**

How do senior leaders set, deploy and ensure two-way communication for a) short and long term organizational direction and organizational priorities, b) performance expectation, c) organizational values and d) ethical behavior. :

a) short and long term organizational direction and organizational priorities?

GSSM takes advantage of the small size of the organization to involve all members of faculty and staff in setting long and short-term direction. The Board of Trustees and key customers, including students and parents, are also critical components of the decision-making process.

Faculty and staff are consulted monthly via a “President’s Report.” Senior staff participate in ongoing strategic planning efforts and meet weekly to discuss management and policy issues. The Board receives regular updates in writing, and Board committees take an active role in review and setting direction for specific areas of school administration, including Facilities, Personnel, Organizational Enhancement, and Distance Learning. Parents are consulted through GSSM’s Parents Advisory Council (PAC). The PAC provides regular updates on school issues, accomplishments, and changes. Students participate in direction setting via weekly Student Council meetings. The Chair of the Student Council meets regularly with the President and attends Board of Trustee meetings when held in Hartsville at the school. All parents and legislators receive the annual School Report Card, which indicates strategic direction as well as results.

b) Performance expectations

GSSM uses ongoing informal and formal assessments and a specialized evaluation instrument for faculty. In addition, specific expectations are set with teaching faculty regarding student achievement via one-on-one discussions with the Academic Vice President.

c) Organizational Values

Values are communicated by our Vision and Mission statements, which are reviewed annually. In addition, faculty, staff and students regularly meet in a context where values are emphasized and openly discussed.

d) Ethical behavior (quality character development)

Faculty, staff, and students participate in annual reviews of the Student Handbook. Faculty and students participate in the Honor Council. Faculty and staff participate in the Judicial Council. Awareness and instruction into “ethics” is a focal point for all of GSSM, with presentations, readings and discussions conducted throughout the school year incorporated into activities and school seminars.

#### **III.1.2 How do senior leaders establish and promote a focus on customers & other stakeholders?**

All senior staff members serve as advisors, club or sport sponsors or teach at some point during the school year. In addition, they work directly with GSSM program partners and participants.

Gauging satisfaction for customers involves demand for GSSM programs and demonstrable achievements during their participation. Examples include: scholarships offered, continued academic participation and success measurements such as SAT scores, acceptance rates into future quality academic programs and being implemented this school year an internet-based student satisfaction survey. For teachers, development of and participation in programs, and use of improved skills and knowledge in the classroom to enhance student achievement measure satisfaction.

III.1.3 How does the organization address the current and potential impact on the public of its programs, services, facilities, and operations, including associated risks?

We survey parents and students annually, collect achievement data (test scores, scholarships) and track alumni. We also identify and obtain possible local, regional and national benchmarks for comparison.

III.1.4 How do senior leaders maintain fiscal, legal and regulatory accountability?

GSSM leadership maintains fiscal, legal and regulatory accountability through a series of authorization chains, reviews, checks and balances. These include:

- Oversight and advice from an active Board of Trustees
- Annual audit through State Department of Education (SDE), which serves as GSSM's fiscal agent (payroll, purchasing, personnel, benefits, state chart of accounts).
- Ongoing authorization, reporting protocols and review from supervisory agencies including:
  - State Engineer's Office (New Campus Planning & construction)
  - SDE's School Planning and Construction (New Campus Planning/construction)
  - State and local Fire Marshall's and safety inspections
  - BCB Materials Management (Procurement, bids, contracts)
  - BCB Capital Projects (Permanent Improvements, Bond)
  - BCB Budget Office (Reports, Legislative Allocations)
  - State Activity Inventory report
  - State Treasurer's Office (Master Lease Program)
  - Hiring legal support on an "as-needed" basis
  - Internal priority identification and requisition systems.
  - Ongoing reviews of priorities, actions and results

III.1.5 Senior Leadership cont.: What performance measures are regularly reviewed to inform them on needed actions?

Performance metrics are listed in section 7 and include application information, demographic and grade data, test results, discipline and program participation results. Customer surveys are taken and the results analyzed. Survey instruments are now internet-based for higher returns and ease of compilation.

III.1.6 How do senior leaders use organizational performance review findings and employee feedback to improve their own leadership effectiveness and the effectiveness of management throughout the organization? How do their personal actions reflect a commitment to organizational values?

The small size of the agency permits regular informal and formal feedback at and around all levels of the organization. Students fill out feedback forms at the end of each semester, and classes are regularly audited. Each senior leader sponsors a club(s), and/or has student advisees and teaches.

III.1.7 How do senior leaders promote and personally participate in succession planning and the development of future organizational leaders?

Because our staff is so small, opportunities for internal succession are minimal. Still, we conduct ongoing formal and informal meetings to assist in evaluations and suggestions for improvement. Ethics and shared values are consistently reinforced and refined during small meetings. GSSM supports close review of internal candidates for advancement. Senior staff chair personnel recommendation committees (committees make a recommendation for employment to the President) in which every staff member will participate over time. Senior staff also serves as support resources for Board of Trustee committees, providing input on all issues, including succession planning.

III.1.8 How do senior leaders create an environment for performance improvement, accomplishment of strategic objectives?

In addition to communication structure described in III.7 above, GSSM senior leaders review, discuss and set or revise priorities on an ongoing basis. This process identifies improvement areas and goals, focuses resources and reinforces the need for innovation.

III.1.9 How do senior leaders create an environment for organizational and workforce learning?

Staff and faculty are encouraged and serve on community committees serving local non-profits and economic development areas. GSSM encourages continuing education by allowing, when possible, flexibility in work assignments so staff can take courses/workshops. Students must each provide 83 hours of work service annually, of which about 25% is outside the school in the community.

III. 1.10 How do senior leaders communicate with, engage, empower and motivate the entire workforce throughout the organization? How do senior leaders take an active role in reward and recognition processes to reinforce high performance throughout the organization?



Monthly full staff meetings are conducted with input from all. Senior staff maintain high visibility with and actual participation in programs to include advising and teaching.

III 1. 11 How do senior leaders activity support and strengthen the communities in which it operates, include the contributions of your senior leaders and workforce.

Senior staff are all members of key civic organizations and regularly interact with local elected officials. Staff and faculty are encouraged and serve on community committees serving local non-profits and economic development areas. Students must each provide 83 hours of work service annually, of which about 25% is outside the school in the community.

## III.2 Category 2 – Strategic Planning

Strategic Planning at GSSM is an on-going process with formal committee structures created within and between divisions (and Board of Trustees) and informal discussions and recommendations solicited and welcomed at any time. Formal review and planning sessions are scheduled at the beginning and end of each school year.

III.2.1 What is your Strategic Planning process, including KEY participants, KEY process steps, and how does it address:

- a) Organization’s strengths, weaknesses, opportunities and threats (SWOT). Key participants: the GSSM Board of Trustees, the GSSM Foundation Board of Trustees, faculty, staff, students and parents. Process steps include regular meetings, input and update along with periodic strategic review and planning (one previous strategic review actually followed the “SWOT” model of strengths, weaknesses, opportunities and threats). Key process steps include regular meetings, surveys and other inputs from these and other constituencies which inform our strategic planning. Our strategic plan addresses the above through decisions concerning staffing and expenditure priorities plus requests for resources from public and private entities.
- b) Financial, regulatory, societal and other potential risks: GSSM conducts comparative analysis of similar institutions on a regular and ongoing basis.
- c) Shifts in technology or the regulatory environment: Process identified need for discreet senior staff position of Chief Information Manager to review, assess and plan integration of technology effectively among GSSM’s academic, residential and outreach components.
- d) Workforce capabilities and needs. GSSM conducts formal and informal comparative analysis of similar institutions on a regular and ongoing basis.
- e) Organizational continuity in emergencies GSSM has developed a comprehensive notification plan in the event of emergencies (natural or man-made) to include alarms, electronic cellphone and email notification systems and contact/action priorities for senior staff involvement during such events. Procedures cover Fire, Tornado, Evacuation and Armed Intruder Alert.
- f) Your ability to execute the strategic plan. Plan matches resources with goals and requires senior staff to assess existing capabilities to achieve results or define and seek additional resources.

Administration conducts and reviews result metrics in detailed strategic planning process involving all functional areas and input/direction from GSSM Board of Trustees.

Key strategic objectives (goals) and related key action plans/initiatives:

**Strategic Planning Chart**

<b>Program Number and Title</b>	<b>Supported Agency Strategic Planning Goal/Objective</b>	<b>Related FY 06-07 Key Agency Action Plan/Initiative(s)</b>	<b>Key Cross References for Performance Measures*</b>
1) Academic/Instruction (813)	Improve academic achievement for our students and participants. Maintain Excellence - Operate effectively in partially completed facilities	Faculty/Student Ratio, Highly Qualified Teachers, Test Score Results, AP Test Results, SAT Averages. National benchmarks in publications and comparisons with like institutions.	EOC Report Card (III.7.2a, p39) -SAT Average (7.2a p. 40) - Faculty qualifications EOC Report Card (7.2a, p41)
2) Life in Residence (814)	Maintain Excellence: including quality of College applications and acceptances, support social learning and adjustments, support ethics and good citizenship and -operate effectively in partially completed facilities	-Conduct College application process -Plan expanded orientation/ethics training at beginning of school year for incoming class -Expand Open House events for prospective students & parents. -Enhance PSAT student test training and support	In-state College Attendance by Graduates, (III 7.2b, p43.) - Program Demand (application range), (7.2b, p. 43) -EOC report Card Data and metrics EOC Report Card (7.2a, p39)
3) Statewide Outreach - Academic Advancement (815)	Provide Advanced Science Opportunities for 7th, 8th, 9th, 10th, 11th and 12 graders. Support Professional Development for teachers. -Operate effectively under reduced budgets and in partially completed facilities	-Leverage partnerships for effectiveness -Obtained grant and conduct teacher training through partnership schools along I-95 corridor -Conduct Summer Science Program for 9th & 10th graders at GSSM's New Campus. Continue acclaimed SPRI advanced mentored research program for rising 12th graders. -	SSP Attendance (III. 7.2c, p. 44) -SPRI Mentor Partners, ( p 44) GearUp Participation (p. 45)
4) Administrative (816)	-Maintain excellence through result metrics, Operate efficiently and in partially completed	-Operate new partially complete faculties to support program missions. -Monitor costs carefully.	EOC report Card EOC Report Card (III. 7.1a, p39. -Systems specified, procured and operational.

	<p>facilities. Complete Unfinished Master Campus Plan: Obtain funds necessary to complete building: (Academic Center &amp; Student Activity Center).</p> <p>-Seek additional grants and partnerships top leverage results</p>	<p>-Validate all operational systems, identify and correct problem areas.</p> <p>-Refine growth plans, options and work to implement. Maintain quality in core programs.</p> <p>-Obtained funding to complete building</p> <p>-Obtained new five-year federal grant to provide Professional Development to teachers in science &amp; math.</p>	<p>(Section III 7. p38-48)</p>
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III. Category 2.2 How do your strategic objectives address the strategic challenges you identified in your executive summary? GSSM develops objectives - priorities – and assigns resources on an ongoing basis with regular internal meetings and a formal process with our Board of Trustees. Metrics are identified, tracked and reviewed. See EOC Report Card.

III.2.3 How do you develop and track action plans that address your key strategic objectives and how do you allocate resources to ensure accomplishment? Through daily, monthly and annual meetings/reviews, Board reports, monthly reports to all Faculty/Staff and administrative reports such as the State Budget Request, State Activity Inventory and this report and evaluations

III.2.4 How do you communicate and deploy your strategic objectives, action plans and related performance measures? GSSM develops objectives - priorities – and assigns resources on an ongoing basis with regular internal meetings and a formal process with our Board of Trustees. Metrics are identified, tracked and reviewed

III.2.5 How do you measure progress on your action plans. We collect the data (see School report card for one example) and develop appropriate comparative data to measure effectiveness.

III.2.6 How do you evaluate and improve your strategic planning process? Review and input of metrics compared to strategic goals by key participants (including the GSSM Board of Trustees, the GSSM Foundation Board of Trustees, GSSM’s senior staff Executive Leadership Team, faculty, staff, students and parents) result in evaluation of strategic process and changes as warranted.

III.2.7 If agency’s strategic plan is available to the public through the agency’s internet homepage, please provide address. Not available at this time. The school’s mission statement, report card and much more programmatic and involvement information are available online through our home webpage at [www.scgssm.org](http://www.scgssm.org)

### **III. 3 Category 3 – Customer Focus**

GSSM key “customers” are the students and teachers of South Carolina – and our partners in education and industry. GSSM concentrates on “raising the bar” of academic achievement: challenging and motivating students to take advanced courses and put in the hard work necessary to successfully complete the curriculum. There is no grade inflation, but merit based on achievement. We believe South Carolina’s future economic prosperity requires students well versed in science and mathematics supported by an excellent foundation in the humanities. These are the courses necessary for entry and success into higher education and professional success in growing the “knowledge-based” economy. GSSM is a leader in both setting achievement standards and integrating “education standards” into modules for students and teachers.

1. How do you determine who your customers are and what their key requirements are?

Our mission directs us toward defining specific customer groups. Ongoing communication, formal and informal, with stakeholders, educational partners and current participants identifies key requirements.

2. How do you keep your listening and learning methods current with changing customer/business needs?

Ongoing communication, formal and informal, with stakeholders, educational partners and current participants informs our methods. Our change to email communication with Parents is one example – both an internal, technological and societal change.

3. What are your key customer access mechanisms, and how do these enable customers to seek information, conduct business and make complaints?

In addition to annual student surveys, which are reviewed with the Board of Trustees, GSSM's main customer access is through instructors, followed by clearly designated supervisor contacts (Academic Dean, Senior Staff, President, then Board members). GSSM has also instituted in 2007-2008 an Independent Communication Channel: an off-site counselor available to record and address any concern not presented through normal communication channels.

4. How do you measure customer/stakeholder satisfaction and dissatisfaction and use this information to improve?

Personal conversations, surveys, test scores, graduation rates, scholarships offered and accepted, applications, drop-out rates are all included. Please see EOC School Report Card for additional categories.

5. How do you use information and feedback from customers/stakeholders to keep services and programs relevant and provide for continuous improvement?

Ongoing reviews of results and constant tactical changes as needed – such as monitoring Student scholarship submissions and awards and follow-up with Universities based on this data.

6. How do you build positive relationships with customers and stakeholders? Indicate key distinctions between different customer groups.

Set and achieve high expectations for GSSM involvement based on highest ethical standards. Key customers all share the desire to improve academics in South Carolina, but each group has distinct needs and outcomes. For example, some customers (businesses) need to have available and hire quality employees, others (schools/universities) to bolster student body quality and students through offering challenging academic and residential paths to achieve their goal of academic excellence. For parents, the value and credibility of a GSSM diploma is important in getting their child into the proper University – and recent articulation agreements between GSSM, USC and Clemson add-value for parents and students.

### **III. 4 Category 4 – Measurement, Analysis and Knowledge Management**

#### III.4.1. How do you decide which operations, processes and systems to measure?

The decision on which operations, processes and systems to measure comes from internal and external review and recommendations. Internally, GSSM tracks student achievement on many levels including scholarships earned and recruitment by colleges and universities. Externally, GSSM works with educational organizations setting “report card” standards, individual course or student expectations/metrics and other criteria. Taking the above into account, GSSM tracks and assigns resources (personnel and budget).

#### III.4.2 How do you select, collect, align and integrate data/information for analysis to provide effective support for decision and innovation throughout the organization?

Internal discussions on the type, source, validity and applicability of data lead to selection, rejection or a process to collect additional data or change methodology of collection. Budget decisions are based on directing appropriate resources to priority areas.

In addition to the required statewide reporting under educational accountability (report cards), GSSM uses internal data collections to both identify possible measurements and to collect the data. GSSM also regularly collects and compares data with similar programs in the state, region, and nation.

#### III.4.3. What are your key measures?:

These include: test scores, graduation rates, scholarships offered and accepted, applications, dropout rates, faculty retention and turnover. Please see Section III, Category 7 – Business Results portion of this report for a comprehensive list.

#### III.4.4 How do you select and use key comparative data and information?

Internal discussions on the type, source, validity and applicability of data lead to selection, rejection or a process to collect additional data or change methodology of collection. Budget decisions are based on directing appropriate resources to priority areas.

#### III.4.5 How do you ensure data quality, reliability, completeness and availability for decision-making?

GSSM reviews and assesses the validity of both data collection devices (standardized tests, internal tests) and the results based on comparisons with other states and comparative institution results (such as class work, class test results vs. standardized tests, etc.).

III.4.6 How do you translate organizational performance review findings into priorities for continuous improvement?

GSSM staff, during formal and informal weekly, monthly and annual meetings share relevant issues, data, results and plans between departments. This includes sharing comprehensive Board reports between functional areas with each administrative director.

III.4.7 How do you collect, transfer and maintain organization and employee knowledge?

GSSM staff, during formal and informal weekly, monthly and annual meetings share relevant issues, data, results and plans between departments. This includes sharing comprehensive Board reports between functional areas with each administrative director.

### **III.5 Category 5 – Workforce Focus**

III.5.1. How do you organize and measure work to enable your workforce to 1) develop to their full potential, aligned with organization’s objectives, strategies and action plans; and 2) promote cooperation, initiative, empowerment, teamwork, innovation and your organizational culture ?

GSSM implements a collegial process of high expectations for employees, bolstered by on-going communications both formal (assigned committees on topics, evaluations, weekly functional meetings) and informal meetings. We discuss “satisfactions” received from working in the various programs. We support ongoing professional development by consideration of flexible scheduling when possible.

III 5.2 How do you achieve effective communication and knowledge/skill/best practice sharing across departments, jobs and locations? Give examples.

Informal and formal communications to include weekly departmental meetings, and monthly all-staff presentations. GSSM implements a collegial process of high expectations for employees, bolstered by on-going communications both formal (assigned committees on topics, evaluations, weekly functional meetings) and informal meetings. GSSM supports a number of electronic conferences and encourages centralized web and email communication templates. We support ongoing professional development by consideration of flexible scheduling when possible.

III.5.3. How does management recruit, hire, place and retain new employees? Describe any barriers that you may encounter.

GSSM develops position descriptions base on required duties and then targets appropriate recruitment efforts to include a) personal referrals from staff, board and educational partners. We also may place announcements in appropriate employment media to include web-based educational advertising. A staff committee representing functional areas of GSSM reviews, interviews and makes a recommendation on hiring. Once hired, a mentor is assigned to assist new employee.



Barriers to recruitment include lack of qualified specialized (Math/Science Masters or PhD for faculty) workforce in small rural town, and spousal employment opportunities.

III.5.4. How do you assess your workforce capability and capacity needs, including skills, competencies and staffing levels?

Compare metrics with previous results and future outcomes desired. Compare current staffing and skills/competencies with scope of new programs/expansions.

III.5.5 How does your workforce employee performance management system, including feedback to and from employees, support high performance and contribute to achievement of your action plans?

GSSM utilizes ongoing daily communications, informal and formal interviews and written reports along with supervisor interviews and internal teacher evaluation systems to formalize communications and both identify priority work issues and also clarify results and expectations. Position Descriptions are reviewed as changes indicate and revised when appropriate. Being a small agency with open lines of communication, GSSM staff is in constant communication with one another, so problems are quickly identified. Formally, we also use regular meetings and reviews along with our teacher evaluation system, and monitor items such as turnover rates, which have been low, compared to similar schools by position.

III.5.6 How does your development and learning system for leaders address the following?

a) development of personal leadership attributes? GSSM supports professional development activities and is cognizant of assigning additional responsibilities necessary to develop an employee's skill and range of qualifications.

b) development of organizational knowledge: as responsibilities increase employee is exposed to greater number and depth of planning/resource allocation and presentation activities, all contributing to development of organizational knowledge.

c) ethical practices. Ethics is an ongoing discussion point in all activities at GSSM.

d) your core competencies, strategic challenges and accomplishment of action plans? as responsibilities increase employee is exposed to greater number and depth of planning/resource allocation and presentation activities, all contributing to development of organizational knowledge

III.5.7 How do you identify and address key developmental training needs for your workforce, including job skills training, performance excellence training, diversity training, management/leadership development, new employee orientation and safety.

By ongoing formal and informal meetings, issues are identified and addressed. Two examples include bolstering GSSM's workplace environment training and institution of an Independent Communication Channel to better identify issues.

### III.5.8 How do you encourage on the job use of new knowledge and skills.

New knowledge and skills sets are usually identified by a small group of opinion leaders within the organization who are then responsible for implementation of their idea/concept. Then this “ownership” group (plus others when identified) will be provided professional development opportunities to bolster skill/knowledge set.

### III. 5.9 How does employee training contribute to the achievement of your action plans?

Individual departments control line-item budgets and can review and provide training as identified. If there is a skill or new process necessary to meet our achievement goals, we identify and provide the training necessary to be successful. One example was our implementation of SASI school software and identification and training of key staff in the process. We encourage consideration of internal promotion.

### III. 5. 10 How do you evaluate the effectiveness of your workforce and leader training and development systems?

Collecting and assessing program results to include benchmarks to include employee retention and ongoing reviews of workload and stress levels on staff and program participants.

### III. 5.11 How do you motivate your workforce to develop and utilize their full potential?

Through a collegial support environment, we strive to provide each employee with authority commensurate with their responsibilities and build-in communication points to ensure required resources are provided. Each employee understands and helps define their responsibilities and takes pride in working toward results.

### III 5. 12 What formal and/or informal assessment methods and measures do you use to obtain information on workforce well-being, satisfaction and motivation? How do you use other measures such as employee retention and grievances?

Ongoing formal and information meetings and report/evaluation reviews, to include weekly departmental meetings and monthly full-staff meetings augmented with many one-on-one meetings. GSSM tracks turn-over of staff as an indicator of satisfaction and motivation.

### III 5. 13. How do you manage effective career progression and effective succession planning for your entire workforce throughout the organization?

Because our staff is so small, opportunities for internal succession are minimal. Still, we conduct ongoing formal and informal meetings to assist in evaluations and suggestions for improvement. Senior staff identifies future staffing issues (retirement probabilities, expansion in scope of programs, etc.). GSSM supports close review of internal candidates for advancement. Senior staff chair personnel recommendation committees (committees make a recommendation for employment to the President) in

which every staff member will participate over time. Senior staff also serves as support resources for Board of Trustee committees, providing input on all issues, including succession planning.

### III. 5. 14 How do you maintain a safe, secure and healthy work environment?

Constant communication is foremost method with immediate follow-up to any safety issue, plus formal reviews, scheduled training and practice drills conducted as required or needed. A number of safety procedures are also in place and practiced, including: Fire Alarm drills and system testing, visitor sign-in procedures, swipe-card area zones, “Go to a Safe Place” procedure and drills and “Evacuation” procedures and drills. GSSM employs a part-time nurse and has a faculty member designated as science safety officer. During 2007-2008 we have coordinated local police training in our facility and finalized our Armed Intruder Lockdown policy. We have also added an electronic emergency notification system for students and staff.

## **III.6 Category 6 – Process Management**

III 6. 1. How do you determine and what are your organization’s core competencies, and how do they relate to your mission, competitive environment and action plans.

We start with our enabling legislation and mission statement declarations through our Board of Trustees, refined by our many educational partners. Core competencies are an ability, through a variety of high-level and challenging programs, to motivate and achieve academic excellence in talented and hard-working South Carolina middle and high school students. All such actions relate to our mission and action plans as we target “excellence” in academic achievement as our competitive environment.

III.6.2 How do you determine, and what are your key support processes that produce, create or add value for your customers and your organization? How do you ensure that these processes are used?

GSSM sets clear and high expectations and provides the time and quality support necessary for achievement.

GSSM focuses on providing highly qualified instructors the time, materials and support they need to spend time teaching motivated and qualified students. The result is demonstrable achievement in academics, which is the key to future success of our students and participants.

For Life in Residence, there is an emphasis on the “wellness model” for student support services – a comprehensive approach to allocate departmental and institutional resources - was developed through our strategic planning processes.

In statewide outreach programs, including our GearUP middle school initiative, Summer Science program for 9<sup>th</sup> and 10<sup>th</sup> graders and our research and development of new campus plans for GSSM and what resources are needed to properly serve the students and teachers throughout South Carolina.

GSSM's state budget requests and private fund-raising activities are based on strategic goals, measurement of current programs and customer demand.

### III.6.3 How do you incorporate organizational knowledge, new technology...into process design and delivery?

Informal and formal (committee) communications processes are another key support process. GSSM during 2006-07 implemented a full-time Chief Information Officer position (begun in third quarter of previous year) to assess and design internal data collection systems allowing efficient collection and assessment of data. Data is collected and analyzed annually, as part of our accountability report process.

Strategic planning, as discussed above, results in GSSM focusing programmatic dollars and time (personnel) resources to accomplish specific results.

The nature of our product is the inherent human trait of students and teachers to desire to know more about the world around them, and develop this natural inquisitiveness into academic and scientific rigor. Our products and services, from classroom to residential, outreach to expectations, are designed to encourage disciplined exploration and discovery, while incorporating skills of communications and citizenship. This creates a learning community, which challenges individuals but rewards participation and results.

The "process" is based on teaming an "expert" with content knowledge and communication expertise in a specific area (discipline) with students in an environment where expectations are high. Technology is sought to enhance communication, feedback, streamline repetitive tasks and offer alternative learning methods. Novel advances in technology are themselves subject to inclusion in the curriculum and are regularly sought out by faculty members in consultation with our industry and university partners.

### III.6.4. How does your day-to-day operations of key production/delivery processes ensure meeting key performance requirements?

Daily interaction allows review of short and long-term goal accomplishment (or delays). For example, we keep class and dormitory attendance rolls and quickly follow-up any absences by students.

### III.6.5 How do you systematically evaluate and improve your key product and service related processes? Measurement and assessment of benchmarks as indicated through our Strategic Plan and specific indicators listed through the school report card and highlights page (i.e., SAT scores, national merit awards, AP test results, demand for program entry, etc.).

### III.6.6 What are your key support processes? Unique to GSSM is the highly specialized knowledge of a scientist-instructor being conveyed to a motivated student by ensuring ample quality time for instruction. For example, GSSM has lab periods of several hours in length regularly scheduled as necessary to complete advanced experiments.

Support processes emphasize such interaction where learning occurs and seeks to eliminate extraneous and burdensome activities, which detract from quality time, spent teaching. For example, streamlined purchasing request processes and ongoing prioritization of needs.

III.6.7 How does your organization determine the resources needed to meet current and projected budget and financial obligations?

The planning process identifies scope of services and specific requirements. The Division Director or Department Chair originating the activity works with the Business Office to clarify time commitments required by staff, faculty and any operating costs (teaching materials, room/board, certification, etc.) or facility resources and identifies specific costs associated with each item. Funding sources are identified as available within existing departmental budgets or outside resources must be sought to conduct the activity. Project proposals are presented for review and approval to the Executive Leadership Team and to the GSSM Board for review & approval is within the scope of a major change.

### **III. Category 7 –Results**

III.7.1 What are your performance levels and trends for the key measures of mission accomplishment/product and service performance that are important to your customers? How do your results compare to those of comparable organizations?

#### **Two sides of One Coin: GSSM’s Residential and Statewide Outreach**

GSSM designs and operates all programs to support one another and offer “steps” of greater involvement and learning appropriate to the individual student or organization. All staff and faculty at GSSM participate in and support both the residential and outreach programs of the school.

It is difficult to differentiate our “Life in Residence” program area from that of Statewide Outreach or Academic Enrichment when acceptance as a residential student is a source of pride and feedback to the home school the student originally attended. The availability of GSSM programs encourages students, teachers and schools to participate in and develop challenging courses.

The GSSM residential program, for report purposes, can be subdivided into two equally supportive branches: Academic and Life in Residence. Both areas are critical to success at GSSM and are therefore interdependent.

GSSM compares very favorably with similar institutions in other states – being recently honored AS ONE OF THE TOP TEN HIGH SCHOOLS IN THE NATION by *Newsweek Magazine*.

#### **III.7.2 Performance levels and trends for key measures**

III.7.2.a A primary measure of GSSM customer satisfaction is reflected in the school’s ongoing School Report Card rating,

NOTE: The official 2007-2008 School Report Card has not yet been formally approved in time for inclusion in this report. Below is the final draft submitted. If major changes or assessments are made, a revised report will be forwarded when formally adopted by the Education Oversight Committee. GSSM does not anticipate any lowering of previous years’ all-excellent ratings, both Absolute and Improvement.

**South Carolina Governor's School for Science and Mathematics**

401 Railroad Avenue, Hartsville, SC 29550

Website: [www.scgssm.org](http://www.scgssm.org)

Grades 11-12  
 Enrollment 128 Students  
 School Lead Instructor Dr. Murray W. Brockman 843-383-3900  
 Board Chair Dr. Raymond S. Greenberg 843-792-2211

THE STATE OF SOUTH CAROLINA  
**2008** ANNUAL SCHOOL  
**REPORT CARD**

**RATINGS OVER 5-YEAR PERIOD**

Year	Absolute Rating	Improvement Rating
2008	Excellent	Excellent
2007	Excellent	Excellent
2006	Excellent	Excellent
2005	Excellent	Excellent
2004	Excellent	Excellent

**ADEQUATE YEARLY PROGRESS** YES

Definition: As required by the United States Department of Education, Adequate Yearly Progress specifies that the statewide target is met for "All Students" and for the following subgroups: Racial/Ethnic, Subsidized Meals, Disability, and Limited English Proficiency in the areas of English/Language Arts and Mathematics, as well as meeting the statewide target for "All Students" for attendance or graduation rate.

**DEFINITIONS OF SCHOOL RATING TERMS**

- Excellent – School performance substantially exceeds the standards for progress toward the 2010 SC Performance Goal
- Good – School performance exceeds the standards for progress toward the 2010 SC Performance Goal
- Average – School performance meets the standards for progress toward the 2010 SC Performance Goal
- Below Average – School is in jeopardy of not meeting the standards for progress toward the 2010 SC Performance Goal
- Unsatisfactory – School performance fails to meet the standards for progress toward the 2010 SC Performance Goal

**SOUTH CAROLINA PERFORMANCE GOAL**

By 2010, South Carolina's student achievement will be ranked in the top half of the states nationally. To achieve this goal, we must become one of the fastest improving systems in the country.

<http://ed.sc.gov>  
<http://www.sceoc.org>

South Carolina Governor's School for Science and Mathematics

PERFORMANCE CRITERIA	DATA
Advanced Placement (AP) Pass Rate	91.2%
Graduates' College Freshman GPA (In-state Colleges)	3.76
SAT Average (High Verbal/High Math)	1385

AP TEST SCORE DISTRIBUTION

Score	5		4		3		2		1		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	65	30%	78	36%	53	25%	15	7%	4	2%	199	100%

COLLEGE FRESHMAN GPA

GPA	3.5-4.0		3.3-3.5		3.1-3.3		2.9-3.1		<2.9		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	26	74%	5	14%	1	3%	2	6%	1	3%	35	100%

SAT SCORES

	Middle 50%		Range	
	640	740	570	800
SAT Critical Reading	640	740	570	800
SAT Math	650	740	590	800

A Special Note on Performance

Every student at Governor's School completes a research course requirement that is a distinctive learning and maturing experience. Senior research begins with at least six full weeks of research in the summer following the junior year. Most of the students conduct their research at university or industrial research facilities under the mentorship of professional scientists or engineers. Students work with their research mentors and Governor's School advisors during the senior year to compile and analyze their research findings, prepare formal research papers, and present their work at a school-sponsored colloquium and at the SC Junior Academy of Science annual meeting.

END OF COURSE TESTS

N/A

Abbreviations for Missing Data

N/A–Not Applicable N/AV–Not Available N/C–Not Collected N/R–Not Reported I/S–Insufficient Sample



South Carolina Governor's School for Science and Mathematics

**SCHOOL PROFILE**

	Our School	Change from Last Year
<b>Students (n 128)</b>		
Retention rate	0	Same
Attendance rate	98.1%	Up from 97.3%
With disabilities other than speech	0	Same
Older than usual for grade	0	Same
Out-of-of school suspensions or expulsions for violent &/or criminal offenses	N/A	Same
Annual dropout rate	N/A	Same
Students in residence	128	Same
National Achievement Semifinalists/Finalists	83% / 83%	Up from 14% / 14%
Seniors Completing Science Research Project	100%	Same
Community Service-hr./student	83	Same
Graduating attending college	100%	Same
Seniors eligible for LIFE Scholarship	100%	Same
Total scholarship offered	\$10,934,799	Up from \$9,212,314
Number of seniors	61	Up from 58
National Merit Semifinalists/Finalists	25% / 25%	Up from 22% / 22%
<b>Teachers (n=14)</b>		
Teachers with advanced degrees	100%	Same
Percent of classes not taught by highly qualified teachers	N/R	Same
Teachers with emergency or provisional certificates	N/A	Same
Teachers returning from previous year	100%	Same
Teacher attendance rate	98.7%	Up from 98.5%
Average salary	\$61299	Up from \$58879
Professional development days per teacher	6	Same
Teachers with Doctorates	79%	Same
Years teaching experience-middle 50%	16 to 34	Up from 15 to 33
<b>School</b>		
President's years at the school	7	Up from 6
Student-teacher ratio in core subjects	10 to 1	Same
Prime instructional time	96.7%	Up from 95.6%
Percent of expenditures for instruction	N/R	Same
Dollars spent per pupil	\$16,035	Up from \$15,136 <sup>a</sup>
Percent of expenditures for teacher salaries	60.8%	Same
Opportunities in the arts	N/A	Same
Parents attending conferences	61.1%	Down from 63.1%
SACS accreditation	N/A	Same
University/Industrial Partners in Research Mentor Program	7	Down from 14
Mentors in Research Program	58	Down from 66
Student clubs and organizations	39	Same
Students active in clubs/societies	98%	Same
Varsity sports teams	9	Same
Students participating in varsity sports	82%	Same
Students returning to home high school	8.6%	Up from 7.0%
<b>Outreach to other schools</b>		
Students in Summer Science Program (SSP)	324	Up from 310
University Partners in SSP	8	Same
6 week summer research positions for other HS	7	Down from 12

<sup>a</sup> Costs for academic program including summer research, but not residential life.

Abbreviations for Missing Data

N/A–Not Applicable N/AV–Not Available N/C–Not Collected N/R–Not Reported I/S–Insufficient Sample

**REPORT OF PRESIDENT**

From its founding in 1988 by a visionary Act of the General Assembly, GSSM has served as a portal through which talented students from throughout South Carolina have embarked on a lifetime of exploration, discovery and growth. The mission of this unique school emphasizes developing the scientifically astute and ethically aware leaders needed for our expanding knowledge-based economy. Nationally ranked by Newsweek and by the College Board, GSSM is now concentrating on national prominence as we prepare for expansion.

At our founding, GSSM shared facilities with Coker College, and private donors provided all funds for construction. As our successes mounted and our reputation grew, the Board of Trustees approached the General Assembly with plans for a stand-alone campus to support growth. The General Assembly concurred with funding for initial facilities, completed in 2003, and this year provided funds for completion. When finished in 2010, this campus will support expansion in both scope and scale to build on our current remarkable record of accomplishment.

GSSM's curriculum is second to none in the state in its depth and challenge, most notably in science and math, but also in the humanities. Our students continue to perform at the highest levels in both our Residential and Outreach programs, reflecting the individual talents of these remarkable young people. The significant achievements of the students in residence in Hartsville (2067 average SAT, highest in the state; \$10.9 million in scholarship offers to 61 seniors, including 25% who were National Merit Scholars) are crowned by their completion of a mentored individual research project at one of South Carolina's research universities or industrial laboratories. GSSM agreements with both Clemson University and the University of South Carolina enabled our graduates to automatically receive college credits for selected courses at either university, supplementing their top performance in AP testing.

Appropriate emphasis on extracurricular activities for all students continues to build strong school spirit, with 82% of students participating in varsity athletics. Our soccer and track teams took regional championships while cross-country placed third, and individual members of the swimming, tennis, and track teams won state honors. In addition, students lead and direct more than 35 clubs and societies, involving 98% of students. Students serve their community and school by working 83 hours each year, supplementing instruction on ethics and character development. Perhaps best of all, students report great satisfaction from forming "friendships for life".

GSSM's Outreach shares exemplary programs statewide to improve science achievement. A new grant from Toyota will equip science teachers to engage their students in standards-based science activities that integrate technology and advanced science equipment, along side our summer math workshops for teachers. Our Summer Science Program encouraged 8th, 9th and 10th graders to explore "real" science, math and computer.

We are eagerly planning to enhance this remarkable record. When the new campus is completed and new faculty and staff funded, we will more than double the students served in both the Outreach and Residential programs. In Residence, we plan to add advanced studies in finance and economics to better meet needs for leadership in the knowledge-based economy. We will pursue opportunities for our students to carry out scientific research globally, and support that effort with enhanced instruction in foreign languages. GSSM will continue to be a flagship for education in South Carolina and, increasingly, the nation.

Murray W. Brockman, President

**EVALUATIONS BY STUDENTS, TEACHERS, AND PARENTS**

	Students	Teachers	Parents
Number of surveys returned	60	11	45
Satisfied with learning environment	95.0%	100%	97.8%
Satisfied with social and physical environment	95.0%	100%	95.6%
Satisfied with school-home relations	95.0%	100%	93.3%

*\*11<sup>th</sup> grade students and parents were surveyed.*

Note: This Report Card captures a wide-range of data and comparatives and was designed in conjunction with the Education Oversight Committee. The 2007-2008 report card data listed above is a final draft submitted to EOC, but minor changes and that group's assessment will be forwarded after its release.

**III.7.2b continued: Key Performance Measures: Academic Residential School:**

Quality of Academic Program: •Average SAT score for class of 2008 = **1383**. Trend over time – consistent with minor variations (2006=1364). (Benchmark Comparison: State HS Average, Higher Education Freshman SAT averages.)

- ◆ Led State with 57% of Class of 2008 recognized by National Merit Competition for excellence with fifteen students named as National Merit Finalists
- ◆ 5 National Achievement Semifinalists
- ◆ GSSM Class of 2008 graduates earned \$10,900,000 in scholarship offers

Program Demand: •Qualified applicants continue to outnumber openings in the range of **3** applications for every **1** opening. (Trend: Number of applications increasing over past several years.)

GSSM Graduates Attending In-State/Out-of-State Colleges & Universities. GSSM encourages students to attend in-state universities by promoting campus visits, conducting visits to in-state major educational institutions and inviting/encouraging seminars, classes and courses taught by in-state university faculty members. We are encouraged by the efforts in-state schools are making to recruit our graduates. Trend over time - about 50/50, with some annual fluctuations.

**Year                      In-State%                      Out-of-State%: Benchmark: exceeds similar school’s in-state rate.**

<b>2007-2008</b>	<b>69%</b>	<b>31%</b>
2006-2007	67%	33%
2005-2006	66%	34%
2004-2005	51%	49%
2003-2004	51%	49%
2002-2003	50%	50%
2001-2002	63%	37%
2000-2001	50%	50%
1999-2000	39%	61%
1998-99	55%	45%
1997-98	55%	45%
1996-97	41%	59%
1995-96	47%	53%

### **III.7.2c Performance Indicators Outreach: Research Intern Program (SPRI Mentored Research)**

• Our **nationally recognized mentored research program** for rising seniors, which is open to all South Carolina students and required for GSSM students, continues to establish new benchmarks. Over the past several years, GSSM students have won numerous awards for research presentations at SCJAS, MUSC's Undergraduate Research Day, and as **Intel Science Competition National Semifinalists**. One student represented a poster at the Biomedical Engineering Society Annual Fall Meeting in Los Angeles, CA. Another student was selected to present her research poster at the 74<sup>th</sup> Annual Meeting of the Southeastern Section of the American Physical Society in Nashville, TN. Several students have been cited as co-authors on articles published in peer-reviewed scientific journals and several 2008 seniors were selected for **MUSC's and Clemson's Summer Undergraduate Research Programs** to continue their research.

•Number of Participants - 65. Trend over time – steady with a little fluctuation, lower as funding is reduced. Placements will contract if additional budget reductions are made, increase as additional funding and contributors come on-line.

•Mentor Partners: 58 scientists from the three major SC research universities and other SC college and universities participated this year, at 7 partner research sites. Business partners include ArborGen new for this report period and have included the Savannah River National Laboratory, DuPont, Michelin, Roche Carolina, Westvaco, and Sonoco. Trend over time - growing, participation depends largely on student scholarship availability and the availability of scientist to serve as mentors. (Benchmark comparison: Higher Education's Performance Indicators IV B and VIII C.)

### **III.7.2d Performance Indicators Outreach: Summer Science Program:**

Attendance: 324 student participants: 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> graders. Trend over time: Variable 275 to 335 maximum.

•Number of SSP Sections Offered – 21 (up from 19 last report period). Trend over time – Varies upon demand/availability.

•Number of S.C. Higher Education Partners, offering Ph.D. instructors: 8. Trend: varies on availability (last report = 8).

• 170 S.C. Junior Scholar participants.

### III.7.2e **Program Area: GSSM Partnerships for Statewide Academic Improvements.**

Strategic Goal: Leverage resources to improve science and mathematics achievement throughout South Carolina by creating efficient and effective partnerships. Impact over 5,000 students in Math/Science.

- 1) GearUP – Gaining Early Awareness for Undergraduate Programs. (a partnership of higher education, CHE, Businesses, SDE, ETV and schools and teachers).

GSSM is part of a six-year grant, to develop and deliver professional development for science teachers in the 18 S.C. GearUP cohort (low SES) schools, starting in 2006-2007.

# of Middle school Teachers and Students taught annually through new partnership initiatives:

- ◆ 9 eighth grade teachers and 505 students
  - ◆ Multiple Math Institutes conducted for 42 teachers from 13 of the GearUP Schools, representing nine school districts.
- 2) Hosted with SDE as partner, 31 teachers attended Physical Science Companion workshops at GSSM.
  - 3) Local Partnership grant with the Citadel (GearUP grant). Conduct hands-on science for 90 middle school students and their parents.
  - 4) USC partner in improving teacher quality (through CHE funding). GSSM provided direct instruction for 20 teachers during the summer: impacting an estimated 2,100 students.

### **III.7.2.f Support Services and Administration Performance Indicators:**

#### **Maintain Quality of Program: See Program area Indicators including:**

- Faculty Qualifications: Maintain minimum Masters with over half of faculty having terminal degrees.
  - Demand for Participation in GSSM Programs (3 to 1 ratio for residential openings)
  - Manage budget while maintaining programs and quality.
- New Facilities: Operation continues in partially completed facilities, opened in 2003. Maintaining system functions tracking operational costs and trends. Implemented computerized facility tracking system. \$14.9M appropriated in 2007 General Assembly to complete building. Once facility is complete, expanding the student body (beginning in 2010) will require operational increases for faculty/staff and student support.

Current (but soon to be added) unfinished buildings include classrooms, laboratories and Student Activity areas (see diagram on next page). GSSM has made every effort to maintain program quality without full facilities. This includes teaching physics in the music room, history in one lobby area and mathematics in the other lobby. Without Phase II's science labs and classrooms, additional leased costs are required in addition to outfitting charges.

Private funds of over \$6,000,000 toward a private endowment goal designed for future programmatic enrichment have been obtained from business and individual donors through the GSSM Foundation. The land for GSSM's new campus in Hartsville was donated, along with landscaping assistance including an irrigation system.

## S. C. Governor's School for Science & Math: Master Campus Plan - Phase I &

### Phase I: Opened in August 2003

- Residential Space for up to 300 Students
- Dining Facilities
- Counseling, Arts, Student Support Facilities - Temporary Classrooms
- Faculty and Support Staff Offices

### Phase II: Opening in 2010!

- Academic Center:
  - Advanced Classrooms
  - Advanced Laboratories
- Student Activities Center



### III.7.3 What are your performance levels for the key measures of financial performance?

2007-2008 is a transition year, due to an increase in base operating appropriations after several years of state budget reductions - moving GSSM toward a reliable base of program funding. Grant support is increasing. A private foundation endowment campaign – designed to support GSSM’s margin of excellence in our programs - now has more than \$6,000,000 committed in pledges for future programmatic support. Hundreds of S.C. companies have joined us as partners through the GSSM Foundation’s Business Advisory Council.

Through previous years of state budget reductions, GSSM has been able to maintain all functional areas as reflected in our performance statistics. However, all options for expansion of programs had been delayed.

- No lawsuits against agency (ever).
- GSSM works with and meets EOC reporting requirements (Report Card, EIA).
- GSSM works with and complies with BCB reporting requirements (Budgeting, Activity Inventory, Permanent Improvement Project process, etc.)
- GSSM has addressed recent budget cuts while maintaining quality and now General Assembly has appropriated the capital funds necessary to complete our building and, beginning in 2010, grow the program.

Partnerships with Business and Industry have dramatically increased: GSSM, through its Foundation, has recruited hundreds of “Business Advisory Council” partners to support the school both financially and with program support such as communication enhancement, research sites and providing mentor opportunities. This increase reflects the awareness that the results GSSM is achieving in advanced education directly impact the economic competitiveness of South Carolina. Trend over time: growing.

The overall trend for future state funding requires continued frugality, but with the investment to complete our building in 2010, GSSM seeks the operating support over a three-year period to fund more than doubling the size of the residential program and greatly expanding educational outreach participation.

### III.7.4 What are your performance levels and trends for the key measures of workforce engagement, workforce satisfaction, the development of your workforce, including leaders, workforce retention, and workforce climate including workplace health, safety and security?

Staff turnover rates – consistently low over time. No injuries on-the-job – consistent over time. While all employees at GSSM serve critical functions, teacher turnover rates are particularly telling – because faculty are the key to quality academic results and there is a general teacher shortage both in South Carolina and in the nation. GSSM meets or exceeds turnover rates at similar residential specialized schools.

III. 7. 5 What are your performance levels and trends for your key measures of organizational effectiveness/operations efficiency and work system performance (these could include measures related to the following: product, service and work system innovation rates and improvement results; improvements to cycle time; supplier and partner performance; and results related to emergency drills or exercises?

Efficiencies relate to achievement of program participants (see sections 7.1, 7.2 & 7.3) and any growth in participation and resources. GSSM programmatic results continue a trend of excellence with greater participation in outreach programs and educational partners. GSSM has implemented new emergency drill procedures to include electronic notification system of staff and students during emergency events (Go to a Safe Place & Armed Intruder Alert).

7.6. What are your performance levels and trends for the key measures of regulatory/legal compliance and community support? Trends: consistent over time for positive meeting of reporting requirements.

- No lawsuits against agency (ever).
- GSSM works with and meets EOC & SDE reporting requirements (SHAC, Report Card, and EIA).
- GSSM works with and complies with BCB reporting requirements (Budgeting, Activity Inventory, Permanent Improvement Project)