

Minutes of the 115th Meeting
Of the Board of Directors of the
Alabama School of Mathematics and Science
Mobile, Alabama
Friday, June 7, 2019
10:30 a.m.

PRESENT Honorable Jo Bonner, Mrs. Pam Doyle, Dr. Mark Suto, Dr. Rhinnie Scott, Mr. Bragg Van Antwerp, Ms. Robin Nelson, Dr. Tony Waldrop, Dr. Lena Walton, Representative Steve McMillan, Mr. Raymond Bell, Ms. Sheila Roby, Representative Alan Baker, Ms. Sharon Magee, Mr. Tyrone Fenderson, and Dr. Elisa Rambo.

ABSENT Mr. Mike Jenkins, Mr. Thomas Wheat, Dr. Sandra Sims-deGraffenried, Mr. John Peebles, Mr. Matthew Calderone, and Dr. Nicholas Giordano.

GUESTS Mr. Robert Campbell, Honorable Ann Bedsole, Mr. Walter Bell, Dr. John Hoyle, Ms. Cecilia Godwin, Ms. Christina Cooley, Dr. Samantha Church, Dr. Scarlett Studdard, and Ms. Kara Whitney,

OPENING Mr. Jo Bonner, Board Chair, welcomed and thanked everyone for attending the Board meeting.

ROLL CALL The roll was taken, and the quorum was met.

APPROVAL OF MINUTES Minutes of the Special Called Board of Directors meeting on April 26, 2019 were presented for action. Upon a motion being made by Ms. Pam Doyle and seconded by Ms. Robin Nelson, the Board duly

RESOLVED to approve the minutes of the April 26, 2019 Board meeting. The motion passed unanimously.

TREASURER REPORT Mr. Steve McMillan, Board Treasurer, presented the Treasurer's report to the Board. The report represents financial activity for the first half of the current fiscal year. Fiscal year 2020 school year will be a record high for ASMS with a proposed one-million-dollar increase. Planning for the new fiscal year is beginning and a proposed budget will be submitted at the September board meeting for approval. The increased funding will fill many needs for the school (See report page 4).

FACULTY

Dr. Elisa Rambo, Faculty Representative to the Board, presented a year-end report. The Computer Science Department has made great strides this year to research and develop new courses for the 2019-2020 school year. A list is provided in the report. The department also hosted a second annual DragonHack this year which served over 75 middle-schoolers and brought in several industry professionals to ASMS. The students trained in one of four areas and started working on a prototype app aimed at helping students have fun while exercising. The math department had a very successful year for Math competitions. The department also hosted the first annual ASMS Math Festival for middle schoolers and the first ever Middle School Math Olympiad in Mobile. French students competed in the University of South Alabama Essay contest and won 2nd place and a money prize. In the German studies, Scott Simpson was accepted into the national Congress-Bundestag Youth Exchange program, an all-expense paid 10 months immersion study. The Spanish students also did very well this year on the National Spanish exam, with students earning 4 gold medals, 7 silver medals, 5 bronze medals and 13 honorable mentions (See report pages 9 & 12).

NEW BUSINESS

Executive Committee Report

Mr. Bonner discussed the Executive Committee report with the Board.

Mr. Bonner stated the Presidential Search committee wanted to do what was good for constituents and the ASMS community. Several committee members held a meeting with faculty, staff, and parents in the fall to see exactly what the community were looking for in a president. Mr. Bonner explained that the alleged off campus incident that lead to an investigation caused the presidential search to be placed on hold. Once the Presidential search resumed in late spring, the search committee decided to interview the two candidates, one being the Interim President Dr. John Hoyle.

The committee has made a recommendation for the Board to vote upon the naming of Dr. John Hoyle as President. Dr. Mark Suto, one of the committee members, stated the school would suffer greatly if Dr. Hoyle was not brought on as President. Mrs. Ann Bedsole, also a search committee member, made a few remarks. She said, "Dr. Hoyle has clear cut vision for the future, and you cannot do anything but follow a visionary leader". Mr. Bonner stated how Dr. Hoyle submitted a comparison chart of the ASMS and ASFA budgets to the governor's office this summer. Senator Arthur Orr reviewed the information and succeeded with placing more money in the budget for ASMS. Mr. Bonner stated he's

New Courses for Catalog

When ASMS faculty members revise and develop new courses to be taught, these must have Board approval. The new courses are listed below:

Oceanography (new course)
Biological Systems (new course)
Data Science with Python (revision to name and course description)
Microcomputer Applications (new course)
App Development (revision to name and course description)
Database Design and SQL (revision to course description)
C# (revision to course description)
Webpage Development (revision to course description)
AP Computer Science A I, II, III (revision to course description)
Advanced Java I, II, III (revision to name and course description)
Computer Ethics (revision to course description)
African American History (new course)
Human Geography (new course)
Mechanical Engineering (revision to course description)
ASMS Fellows Research Program (new course)

Upon a motion being made by Mr. Tyrone Fenderson and seconded by Mr. Raymond Bell, the Board duly

RESOLVED to approve the revised and proposed new courses as stated above. The motion passed unanimously.

Personnel Issues

Retirement of Ms. Peggy Partridge

Ms. Peggy Partridge, Admissions Coordinator, has submitted her letter of Retirement after 21 years of service to ASMS. Upon a motion made by Ms. Pam Doyle and seconded by Dr. Mark Suto, the Board duly

RESOLVED to approve the retirement of Ms. Peggy Partridge. The motion passed unanimously.

Dr. Karen Smith, an English instructor, has completed 2 years of teaching at ASMS and is being renewed with a 3-year contract. Upon a motion being made by Dr. Rhinnie Scott and seconded by Dr. Tony Waldrop, the Board duly

RESOLVED to approve Dr. Karen Smith for a 3-year contract, 2019-2020 to 2021-2022. The motion passed unanimously.

Ms. Meoshe Id-Deen, a Math instructor, has completed 2 years of teaching at ASMS and is being renewed for a 3-year contract. Upon a motion being made by and seconded by Dr. Tony Waldrop, the Board duly

RESOLVED to approve Ms. Meoshe Id-Deen for a 3-year contract, 2019-2020 to 2021-2022. The motion passed unanimously.

Ms. Muriel Hoequist, a Foreign Language instructor, has completed 16 years of teaching at ASMS and is being renewed for another 5-year contract. Upon a motion being made by Dr. Tony Waldrop and seconded by Mr. Tyrone Fenderson, the Board duly

RESOLVED to approve Ms. Muriel Hoequist for a 5-year contract, 2019-2020 to 2023-2024. The motion passed unanimously.

Dr. Elisa Rambo, a Chemistry instructor, has completed 15 years of teaching at ASMS and is being renewed for another 5-year contract. Upon a motion being made by Mr. Bragg Van Antwerp and seconded by Dr. Lena Walton, the Board duly

RESOLVED to approve Dr. Elisa Rambo for a 5-year contract, 2019-2020 to 2023-2024. The motion passed unanimously.

After completing a probationary year of employment as a Spanish instructor, Ms. Heather Summey is not being renewed for a contract of employment. Upon a motion being made by Ms. Robin Nelson and seconded by Dr. Mark Suto, the Board duly

RESOLVED to approve the non-renewal of Ms. Heather Summey. The motion passed unanimously.

Revised Student Handbook

Mr. Robert Campbell, Board attorney, discussed the revised Community Standards Handbook. Mr. Campbell says state and federal laws were reviewed and regulations passed by the Secretary of State were followed. The new booklet has 145 pages compared to the old handbook of 56 pages. The new handbook will be posted online for incoming and returning students in the fall. Dr. Hoyle thanked the faculty and staff members who served on the committee and for their hard work. Upon a motion being made by Mr. Steve McMillan and seconded by Dr. Mark Suto, the Board duly

RESOLVED to approve the revised Community Standards Handbook. The motion passed unanimously.

There being no further business the Board meeting adjourned at 11:47 a.m. The next meeting will be Friday, September 13, 2019.

Respectfully Submitted by

Mike Jenkins, Secretary

Cecilia Godwin
Executive Assistant to the President

AGENDA
Alabama School of Mathematics and Science
Board of Directors Meeting
Friday, June 7, 2019
10:30 a.m.

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| Call to Order and Welcome | Mr. Jo Bonner, Chairman |
| Secretary
Roll Call | Mr. Mike Jenkins
Ms. Cecilia Godwin, Executive Assistant |
| Approval of Minutes
*Vote to Approve | Mr. Jo Bonner |
| Financial Status
Treasurer's Report
Finance Report
*Vote to Approve | Rep. Steve McMillan, Treasurer
Ms. Christina Cooley |
| General Reports:
Legal Counsel
ASMS Report
Faculty Representative Report | Mr. Robert Campbell
Dr. John Hoyle
Dr. Elisa Rambo |

- New Business**
- Executive Committee Report
 1. Presidential Search Update
 2. Nomination of Officers 2019-2020
 - Announcement from Robin Nelson
 - Student Auxiliary budget for 2019-2020
 - Courses for 2019-2020
 - Personnel Contract Renewals and Retirement
 - Revised Student Handbook

Old Business

Adjournment

Note: Next meeting Friday, September 13, 2019 at ASMS
Lunch provided at the conclusion of the Board meeting

Alabama School of Mathematics and Science

TREASURER'S REPORT

Board Meeting June 7, 2019

- The ASMS revenue and expense report and balance sheet is presented.

These reports represent financial activity for first half of fiscal year 2019. A column is added for a comparison to the previous year. Cash balance on March 31st was \$159,175.

Revenues consist mainly of funding from the Alabama Education Trust Fund (ETF) and salary reimbursements and grant funding from the ASMS Foundation. The ASMS Foundation grants funding to the school to offset the ETF deficit for operations. \$275,000 is approved for this year.

Fiscal Year 2020 ETF budget will be a record high for ASMS. The increase in funding will fill many needs. Planning for the new fiscal year is beginning and a proposed budget will be submitted at the September board meeting for approval.

- A budget report is presented.

This is the approved annual budget with actual 2nd quarter revenue and expense activity. Data processing, technology expenses will go over budget this year due to an unexpected lightning strike on WIFI switches and needed WIFI improvements throughout the dorms. Faculty and staff computers are aging and being replaced as needed.

- Student Auxiliary financial activity for the school year 2018/19 is presented under new business with a proposed budget for the 2019/20 school year, to be approved.

Student Auxiliary activity is a separate report with funds in a separate bank account. The primary source of revenue is \$1,575 assessed to each student per year for activity fees.

The State of Alabama Public Examiners office includes Student Auxiliary financial activity in its audits. An audit is due at any time.

Alabama School of Mathematics and Science
Combined Appropriations/Revenues and Expenses
Quarter ended March 31, 2019 and March 31, 2018 (for comparison)

	<u>10/1/18 to 03/31/19</u>	<u>10/1/17 to 03/31/18</u>	<u>Incr (Decr)</u>	<u>% of change</u>
Appropriations and Revenues				
ETF Appropriation through the 2nd quarter	\$ 3,934,780.00	\$ 3,631,580.00	\$ 303,200.00	8.3%
Foundation Admin. Salary Reimbursements	\$ 195,401.86	\$ 215,525.75	\$ (20,123.89)	-9%
NBPTS Grant Funding	\$ 5,000.00	\$ 10,000.00	\$ (5,000.00)	-50%
Grant Revenue from ASMS Foundation	\$ 142,500.00	\$ 170,000.00	\$ (27,500.00)	-16%
Grant for Communications Faculty	\$ 64,488.75	\$ 62,997.00	\$ 1,491.75	2%
Other Revenues	\$ 22,801.30	\$ 19,920.00	\$ 2,881.30	14%
Total Appropriations and Revenues	\$ 4,364,971.91	\$ 4,110,022.75	\$ 254,949.16	6%
Expenses				
Salaries, Regular and Adjunct Pay	\$ 1,750,949.15	\$ 1,656,774.00	\$ 94,175.15	6%
Longevity Allowances	\$ 22,650.00	\$ 23,000.00	\$ (350.00)	-2%
FICA	\$ 131,504.37	\$ 124,170.00	\$ 7,334.37	6%
Retirement	\$ 197,347.97	\$ 185,976.88	\$ 11,371.09	6%
Group Health Insurance	\$ 313,386.67	\$ 289,600.00	\$ 23,786.67	8%
Utilities (electric, gas, water, sewer)	\$ 206,563.45	\$ 207,372.33	\$ (808.88)	0%
Telecommunication	\$ 11,643.37	\$ 11,271.61	\$ 371.76	3%
Postage / Shipping	\$ 5,644.34	\$ 9,243.83	\$ (3,599.49)	-39%
Rent - Buildings/Campus facilities	\$ 995,279.40	\$ 995,279.40	\$ -	0%
Rent - Office Equip., Printing & Photo Equip.	\$ 15,142.09	\$ 14,241.86	\$ 900.23	6%
Services - Cafeteria Food Service	\$ 339,078.00	\$ 323,950.00	\$ 15,128.00	5%
Services - Security & Monitoring	\$ 78,135.00	\$ 78,090.00	\$ 45.00	0%
Services - Legal	\$ 23,414.40	\$ 12,480.00	\$ 10,934.40	88%
Services - Advertising	\$ 10,216.51	\$ 11,961.80	\$ (1,745.29)	-15%
Services - Other Professional	\$ 38,686.00	\$ 32,981.89	\$ 5,704.11	17%
Supplies - Books, classroom, office, misc.	\$ 64,426.10	\$ 79,939.99	\$ (15,513.89)	-19%
Supplies - Data processing, technology	\$ 31,892.67	\$ 18,457.38	\$ 13,435.29	73%
Supplies - Dues & Subscriptions	\$ 620.50	\$ 230.00	\$ 390.50	170%
Supplies - Food & Provisions	\$ 4,610.06	\$ 2,869.23	\$ 1,740.83	61%
Supplies - Printing & Binding	\$ 1,004.67	\$ 1,394.14	\$ (389.47)	-28%
Insurance - Property, ATBE Liability	\$ 40,873.00	\$ 38,215.00	\$ 2,658.00	7%
Travel / Professional Development	\$ 22,014.32	\$ 6,342.19	\$ 15,672.13	247%
Total Expenses	\$ 4,305,082.04	\$ 4,123,841.53	\$ 162,910.38	4%
Net Income (Loss)	\$ 59,889.87	\$ (13,818.78)		

Alabama School of Mathematics and Science
Balance Sheet (unaudited)
Quarter ended March 31, 2019 and March 31, 2018 (for comparison)

	Mar. 31, 2019	Mar. 31, 2018	\$ Change	% Change
ASSETS				
Current Assets				
Checking/Savings				
Cash-Regions Bank	\$ 159,175.25	\$ 176,792.71	\$ (17,617.46)	-10%
Cash-State Treasury	\$ 111,138.11	\$ 53,701.85	\$ 57,436.26	107%
Total Checking/Savings	\$ 270,313.36	\$ 230,494.56	\$ 39,818.80	17%
Total Current Assets	\$ 270,313.36	\$ 230,494.56	\$ 39,818.80	17%
TOTAL ASSETS	\$ 270,313.36	\$ 230,494.56	\$ 39,818.80	17%
LIABILITIES & EQUITY				
Equity				
Opening Bal Equity	\$ 22,723.83	\$ 81,975.12	\$ (59,251.29)	-72%
Net Income	\$ 247,589.53	\$ 148,519.44	\$ 99,070.09	67%
Total Equity	\$ 270,313.36	\$ 230,494.56	\$ 39,818.80	17%
TOTAL LIABILITIES & EQUITY	\$ 270,313.36	\$ 230,494.56	\$ 39,818.80	17%

Alabama School of Mathematics and Science
BUDGET for Fiscal Year 2019

	ANNUAL BUDGET 10/1/18 - 9/30/19	2nd Qtr BUDGET 10/1/18 - 3/31/19	2nd Qtr ACTUAL 10/1/18 - 3/31/19	2nd Qtr VARIANCE	% of VARIANCE
REVENUES					
State ETF Appropriation	\$ 7,535,772	3,934,780	\$ 3,934,780	\$ -	0%
ASMS Foundation Staff Reimbursement	\$ 475,000	237,500	\$ 195,402	\$ (42,098)	-18%
AIMS Staff Reimbursement	\$ 177,000	-	\$ -	\$ -	0%
ASMS Foundation Grant/Communications	\$ 63,000	63,000	\$ 64,489	\$ 1,489	2%
ASMS Foundation Grant/Operations	\$ 275,000	142,500	\$ 142,500	\$ -	0%
Student Auxiliary Driver/Technology	\$ 35,000	20,400	\$ 20,400	\$ -	0%
NBPTS Funding	\$ 10,000	10,000	\$ 5,000	\$ (5,000)	-50%
Miscellaneous Revenue	\$ 3,000	2,000	\$ 2,401	\$ 401	20%
TOTAL REVENUES:	\$ 8,573,772	\$ 4,410,180	\$ 4,364,972	\$ (45,208)	1%
EXPENSES					
Salaries	\$ 3,468,000	\$ 1,782,000	\$ 1,773,599	\$ (8,401)	0%
Personnel Benefits	\$ 1,255,000	\$ 640,000	\$ 642,239	\$ 2,239	0%
Utilities - Elec., Gas, Water, Sewer	\$ 507,862	\$ 215,000	\$ 206,563	\$ (8,437)	-4%
Utilities - Telecommunications	\$ 22,000	\$ 11,000	\$ 11,643	\$ 643	6%
Utilities - Postage/shipping	\$ 15,000	\$ 7,500	\$ 5,644	\$ (1,856)	-25%
Rent - Building/Campus facilities	\$ 1,990,559	\$ 995,279	\$ 995,279	\$ -	0%
Rent - Equipment	\$ 28,000	\$ 15,000	\$ 15,142	\$ 142	1%
Services - Cafeteria Food Service	\$ 582,116	\$ 340,000	\$ 339,078	\$ (922)	0%
Services - Security & Monitoring	\$ 160,000	\$ 80,000	\$ 78,135	\$ (1,865)	-2%
Services - Legal	\$ 23,000	\$ 11,500	\$ 23,414	\$ 11,914	104%
Services - Other	\$ 168,235	\$ 84,118	\$ 48,903	\$ (35,215)	-42%
Supplies - Classroom, office, misc.	\$ 75,000	\$ 37,500	\$ 39,362	\$ 1,862	5%
Supplies - Textbooks	\$ 97,000	\$ 30,000	\$ 22,865	\$ (7,135)	-24%
Supplies - Data processing, technology	\$ 30,000	\$ 20,000	\$ 31,893	\$ 11,893	59%
Supplies - Food & Provisions	\$ 7,000	\$ 3,500	\$ 4,610	\$ 1,110	32%
Supplies - Printing/Publications	\$ 13,000	\$ 6,500	\$ 1,005	\$ (5,495)	-85%
Insurance - Property, ATBE Liability	\$ 52,000	\$ 42,000	\$ 40,873	\$ (1,127)	-3%
School Programs	\$ 50,000	\$ 25,000	\$ 2,820	\$ (22,180)	-89%
Travel/Professional Development	\$ 30,000	\$ 20,000	\$ 22,014	\$ 2,014	10%
TOTAL EXPENSES:	\$ 8,573,772	\$ 4,365,898	\$ 4,305,082	\$ (60,816)	1%
REVENUES +/- EXPENSES	\$ 0	\$ 44,282	\$ 59,890		

Budget approved at Board meeting September 7, 2018

ASMS REPORT

June 7, 2019

ANNOUNCEMENTS

- The Class of 2019 earned a composite 30 ACT score, the highest in the school's history. The class also earned over \$13 million in merit-based scholarship opportunities.
- This year's graduation speaker was 2000 graduate Dr. Amber Gordon, a neurologist who works at Mobile Infirmary.
- 67% of graduates will attend in-state schools, including the University of Alabama, Auburn University, University of Alabama in Huntsville, University of Alabama at Birmingham, University of Montevallo, University of South Alabama, and Alabama State University. Out-of-state school sampling: Yale University, Massachusetts Institute of Technology, United States Naval Academy, Columbia University, Georgia Institute of Technology, University of Rochester, Wellesley College, Vanderbilt University, Howard University, Berklee College of Music, Rice University, etc.
- The ASMS Research Fellows pilot program will launch in August. A group of 12 juniors will earn course credit and research an environmental biology issue. At the end of the school year, they will present their findings in three ways: academic poster, oral defense, and a research paper.
- On May 11, 120 middle school students from across the state participated in a second annual DragonHack!
- The Adventures In Math and Science Summer Program has enrolled more than 1,200 students this year and offers an assortment of classes, including Apps for Android Devices, Drones and Racecars, Archaeology, Advanced Rocketry, 3D Printing and Design, CSI: Fun Forensics, and many others.
- ASMS will be providing several science-related classes to the Poarch Creek Indian Learning Center this summer. This partnership was formed because the Poarch were looking for help in offering hands-on science labs for their 130 middle and high school students.

SUMMER PROJECTS

- Move all student parking to a safer, unified location.
- Replace West Campus Art/Band Room HVAC.
- Clean out West Campus storage buildings to prepare for future renovation into a Makerspace and Robotics Lab.
- Seal exterior of Boys' Dorm and paint interior hallways.
- Renovate 4th floor of Girls' Dorm (lobby, flooring, lighting, repair walls).

ENROLLMENT

- ASMS will start the 2019-2020 school year with 273 students:
 - 1 % Native American
 - 6% Multiracial
 - 6% Hispanic
 - 10% Asian
 - 18 % African American
 - 59% Caucasian

Faculty Report to the ASMS Board of Directors

June 7, 2019

Computer Science

The Computer Science Department has made great strides this year to research and develop new courses for the 2019-2020 school year. The following is a list of courses that resulted from this research along with courses we currently teach:

CS101 Computer Science Principles	DR-Cloud Computing
CS116 Data Science with Python	DR-Video Game Creation
CS140 App Development	DR-Microcomputer Applications w/ VBA
CS210 Database Design and SQL	DR-Cybersecurity
CS216 C#	DR-Introduction to Linux
CS220 Webpage Development	DR-Introduction to Networking
CS311 AP Computer Science A I & II	DR-Project Management
CS313 AP Computer Science A III (w/ AP Exam)	DR-Server Management
CS321 Advanced Java I, II & III	
CS415 Computer Ethics	

With 17 courses covering 21 sections, ASMS students will have a variety of CS classes from which to choose. To help students select courses, 7 career tracks will be introduced to the students which cover the top CS in-demand jobs. These are Database Administrator, Software Developer, Data Scientist, Information Security Analyst, Information Technology, Web Developer, and Video Game Developer. The CS Department hosted another DragonHack this year which served over 75 middle-schoolers and brought in several industry professionals to ASMS. The students were trained in one of four key areas and started working on a prototype app aimed at helping students have fun while exercising. Four students competed in a Cybersecurity Capture the Flag competition at the University of Alabama. Our students won first place. ASMS students qualified to compete in the National Championship for GirlsGoCyberStart 2019 which will be held online June 5th-7th.

Fine Arts

The Art Department held a closing reception for the USA Clay Exhibit curated by Professor Tony Wright. The reception was well attended. Sophia Palacio installed her senior thesis exhibit in the ASMS gallery. Her AP work earned her a scholarship to attend Parsons School of Design in NYC. Senior Katelyn Caffey was awarded 2nd place in the Congressional Art exhibit at the Mobile Museum of Art. The Art Department and senior AP Art students volunteered with the Youth Leadership group at Strickland Youth Center to create and run a group art project for youth at risk.

History

In April, Diane Gerard sponsored the participation of 44 ASMS students in DIMUN, the local Model UN hosted by Davidson H.S. since the 1970s. It was another victorious year for ASMS as our delegates took home over 50% of the awards. During the Spring Quarter Dr. Gerard also had former FBI agent Tim White speak to the Terror and Violence class about his 27 year experience in the FBI with a focus on counterterrorism. Students in the WW2 class dined with local Veterans at Dr. Gerard's home on May 16th and earlier in the quarter, the students had a class with Holocaust Studies professor David Meola from USA.

This summer Dr. Gerard will prepare for next year's new sophomore required course, Human Geography. This will replace the Western Thought class, a required class for ASMS sophomores for the past 16 years. Western Thought will now become an elective. Diane will also travel to Cuba this summer and has prepared four talks on the island, its culture and history for the Royal Caribbean cruise line. Looking towards fall, Dr. Gerard will present a workshop on incorporating STEM activities into the humanities classroom using the theme of "Beauty," at the annual NCSSES conference in November.

Mathematics

ASMS had a very successful year for Math competitions:

American Mathematics Competitions (AMC): 1st ever ASMS student to make it to the USAJMO (USA Junior Mathematical Olympiad) round, a six-question, two-day, 9-hour essay/proof examination: Gregory Li.

Mandelbrot Competition, Southeast region: 11th place team; 4th place individual (Gregory Li).

ALA-LA-MISS Mathematics League: 1st place team; 1st place individual (Gregory Li, perfect score), 6th, 9th, 11th, 13th place individual.

Alabama Statewide Math Contest: 1st place team in our district, 7th place statewide in our division on Comprehensive Exam; 5th place statewide in our division in Ciphering Round; 3rd place individual statewide (Gregory Li).

Mobile Math Olympiad: six of our students tied for 1st, 2nd, and 3rd place.

Mathematical Puzzle Problems (MaPP) High School Challenge: 2nd & 6th place teams

DASH (Different Area, Same Hunt) International Puzzle Hunt: 1st place team in our area

Additionally, on March 30th, we hosted the first annual ASMS Math Festival for Middle Schoolers and the first ever Middle School Math Olympiad in Mobile. This event was a collaborative effort with the University of South Alabama and the Mobile Math Circle, and would not have been possible without the volunteer efforts of our amazing ASMS math students. We have next year's Math Festival set for March 28, 2020.

Modern Languages

French: French students competed in the *University of South Alabama Essay Contest* and won 2nd place and a money prize. For the *National Exams in French* at *Level 1*, students ranked 1st, 2nd, 6th, 9th and 11th in Alabama, which translates to a national percentile of better than 95, and 85 percent of test takers nationally. At *Level 2*, students ranked 1st, 2nd, 3rd, 5th, 8th 10th in Alabama, which means a national percentile of better than 95, 85 and 80 percent of test takers nationally. For the first time ever, each level had 1 platinum winner (who made no mistakes at all). We also had three gold medals, two silver and four bronze medals, and 11 students earned “National Laureate” status. With the assistance of a French adjunct, Ms. Hoequist was better able to prepare students for the National exams. Results were higher both in quantity and quality than in previous years. For the first time in ASMS history, three French students earned the national proficiency *Seal of Biliteracy* test. They received a nationally registered certificate showing their scores in speaking, listening, reading and writing, and a sticker on their graduation certificate.

Ms. Hoequist successfully held the *National French and German Honor Society Inductions* jointly again this year with assistance from adjunct instructor Ms. Rindle, with parents, students, administration personnel and faculty in attendance.

German: Scott Simpson was accepted into the national *Congress-Bundestag Youth Exchange (CBYX)* program, an all- expense paid 10 months immersion study. German students competed in the *University of South Alabama Essay Contest* and won 1st, 2nd, and 3rd place and money prizes. For the *National Exams in German* at *Level 1*, students ranged 1st, 3rd, 4th, 6th and 9th, which translates to the national percentiles 99, 98, 97, 94, and 93 for gold, with 83% for silver and multiple bronzes. At *Level 2*, eight students placed 1st, 2nd, 4rd, 5th, 7th, 8th and 10th in Alabama, which represents national percentiles of 99, 98, 97 and 95 respectively. There were also three silver medals at the 88, 87 and 85 percentile. Students earned sixteen gold medals, four silver medals and several bronzes total. Several students shared a ranking or percentile. Our honors are posted nationally on the presidential AATG honor roll. Four of our students qualified to compete for the *AATG-PAD Study Trip Award*, which ASMS students have won 5 times under Ms. Hoequist instruction. This year as well, one of our German students, Isaac Jones, was selected by the state testing chair to be the one applicant for the state of Alabama. For the first time in ASMS history, five German students earned the national proficiency *Seal of Biliteracy* test. They received a nationally registered certificate showing their scores in speaking, listening, reading and writing, and a sticker on their graduation certificate. Ms. Hoequist held *National French and German Honor Society Inductions* jointly again this year with parents, students, administration personnel and faculty in attendance. The German program has grown so much, we may have to hold two separate events in future.

Spanish: The Spanish students did very well on the National Spanish Exam this year. Our students earned 4 gold medals, 7 silver medals, 5 bronze medals, and 13 honorable mentions. 16 students were inducted into the National Spanish Honor Society on May 8th. These students completed the foreign language requirement at ASMS, making all A's in their required courses. These students are passionate about language study and have committed to taking Spanish courses for the remainder of their tenure at ASMS. The new *Seal of Biliteracy* program was a great success this year, in which students demonstrate proficiency in the target language by completing the Spanish Grammar & Composition course sequence and taking a rigorous exam which tests proficiency in reading, writing, speaking, and listening. 14 students earned the Seal, which will be placed on their transcripts for college admissions and employment purposes. A 5th year Spanish course was added this year (Hispanic Literature & Culture), which was very successful. Enrollment in this course

was higher than expected. Considering ASMS is a 3-year school, the success of this course is a testament to the strength and popularity of our program. Upper-level Spanish students worked on a collaborative project with Spanish students from Morgan Park Academy in Chicago this term. They worked virtually with another Spanish class to design, create, and publish a website on a Latin American Dictatorship. As part of the project, they examined dictatorships through a variety of different social and political lenses to delve deeper into the motivations, methods, and consequences of various dictatorships.

New Business

1. STUDENT AUXILIARY BUDGET FOR 2019-2020

Explanation: The ASMS Board must approve the Student Auxiliary budget for the 2019-2020 school year.

Recommendation: The ASMS Board approve the 2019-2020 Student Auxiliary budget.

2. COURSES FOR 2019-2020

Explanation: When ASMS faculty members revise and develop new courses to be taught, these must have Board approval. The courses are listed below:
(See pages 18-21)

Oceanography (new course)
 Biological Systems (new course)
 Data Science with Python (revision to name and course description)
 Microcomputer Applications (new course)
 App Development (revision to name and course description)
 Database Design and SQL (revision to course description)
 C# (revision to course description)
 Webpage Development (revision to course description)
 AP Computer Science A I, II, III (revision to course description)
 Advanced Java I, II, III (revision to name and course description)
 Computer Ethics (revision to course description)
 African American History (new course)
 Human Geography (new course)
 Mechanical Engineering (revision to course description)
 ASMS Fellows Research Program (new course)

Recommendation: The ASMS Board approve the revised and proposed new courses.

3. PERSONNEL UPDATES

A. Retirement of Ms. Peggy Partridge

Explanation: Ms. Peggy Partridge, Admissions Coordinator, has submitted her letter of retirement after 21 years of service to ASMS.

Recommendation: The ASMS Board approve the retirement of Ms. Peggy Partridge.

B. Contract Renewals for ASMS Faculty Members

Explanation: The contracts of the faculty members listed below are expiring at this time. The Board must act to renew these contracts.

1. Faculty Contract for Jessica Alexander, Ph.D.

Explanation: Dr. Alexander, a Physics instructor, has completed her first 1-year contract of teaching at ASMS. This will be her second 1-year contract.

Recommendation: The ASMS Board approve Dr. Alexander for a second 1-year contract, 2019-2020.

2. Faculty Contract for Mr. Bill Brouillet

Explanation: Mr. Brouillet, a Physical Education instructor, has completed 9 years of teaching at ASMS. Because he has not completed a master's degree, he is being renewed for another 1-year contract for 2019-2020.

Recommendation: The ASMS Board approve Mr. Bill Brouillet for a 1-year contract, 2019-2020.

3. Faculty Contract for Ms. Deborah Gray

Explanation: Ms. Gray, a Computer Science instructor, has completed her first 1-year contract of teaching. This will be her second 1-year contract.

Recommendation: The ASMS Board approve Ms. Gray for a second 1-year contract, 2019-2020.

4. Faculty Contract for Mr. Daniel Commander

Explanation: Mr. Commander, an English instructor, has completed 2 years of teaching at ASMS.

Recommendation: The ASMS Board approve Mr. Commander for a 3-year contract, 2019-2020 to 2021-2022.

5. Faculty Contract for Dr. Natalie Ortell

Explanation: Dr. Ortell, a Biology instructor, has completed 2 years of teaching at ASMS.

Recommendation: The ASMS Board approve Dr. Ortell for a 3-year contract, 2019-2020 to 2021-2022.

6. Faculty Contract for Dr. Karen Smith

Explanation: Dr. Smith, an English instructor, has completed 2 years of teaching at ASMS.

Recommendation: The ASMS Board approve Dr. Smith for a 3-year contract, 2019-2020 to 2021-2022.

7. Faculty Contract for Ms. Meoshe Williams

Explanation: Ms. Williams, a Math instructor, has completed 2 years of teaching at ASMS.

Recommendation: The ASMS Board approve Ms. Williams for a 3-year contract, 2019-2020 to 2021-2022.

8. Faculty Contract for Ms. Muriel Hoequist

Explanation: Ms. Muriel Hoequist, a Foreign Language instructor, has completed 16 years of teaching at ASMS and is being renewed for another 5-year contract.

Recommendation: The ASMS Board approve Ms. Hoequist for another 5-year contract, 2019-2020 to 2023-2024.

9. Faculty Contract for Dr. Elisa Rambo

Explanation: Dr. Rambo, a Chemistry instructor, has completed 15 years of teaching at ASMS and is being renewed for another 5-year contract.

Recommendation: The ASMS Board approve Dr. Rambo for another 5-year contract, 2019-2020 to 2023-2024.

10. Non-Renewal of a Full Time Faculty Member

Explanation: After completing a probationary year of employment as a Spanish instructor, Ms. Heather Summey is not being renewed for a contract of employment.

Recommendation: The ASMS Board approve the non-renewal of Ms. Heather Summey.

Alabama School of Mathematics and Science
STUDENT AUXILIARY
BUDGET proposed for School Year 2019/20

	<i>to be approved</i>			
	<u>School Year 2018/19 Budget</u>	<u>School Year 2018/19 Actual</u>	<u>Variance to 2018/19 Budget</u>	<u>School Year 2019/20 Budget</u>
REVENUE / Central Student Auxiliary:				
Student Activity Fees	\$ 409,500	\$ 408,943	\$ (557)	\$ 409,250
Finance Charges	\$ 10,050	\$ 10,750	\$ 700	\$ 10,800
Graduation Fees	\$ 15,050	\$ 15,225	\$ 175	\$ 16,100
PSAT Fees	\$ 2,640	\$ 2,610	\$ (30)	\$ 2,670
AP Test Fees	\$ 30,000	\$ 30,268	\$ 268	\$ 30,000
Miscellaneous Revenue	\$ 5,000	\$ 4,034	\$ (966)	\$ 5,000
Scholarship Revenue	\$ 15,750	\$ 15,880	\$ 130	\$ 16,000
Total Revenue	\$ 487,990	\$ 487,710	\$ (280)	\$ 489,820
EXPENSES / BUDGET:				
Central Auxiliary *	\$ 274,700	\$ 302,045	\$ (27,345)	\$ 297,900
DSS Discretionary Fund	\$ 2,000	\$ 1,544	\$ 456	\$ 1,500
Athletics	\$ 12,000	\$ 19,459	\$ (7,459)	\$ 15,120
Azimuth (<i>Year Book</i>)	\$ 8,500	\$ 7,683	\$ 817	\$ 8,500
Band and Choir	\$ 4,000	\$ 3,921	\$ 79	\$ 4,000
Dorm/Common area Furniture	\$ 27,190	\$ 27,190	\$ -	\$ 15,000
Hall Staff activities (<i>9 Halls \$400 per term</i>)	\$ 10,800	\$ 10,780	\$ 20	\$ 10,800
Honor Societies Activities	\$ 2,000	\$ 1,741	\$ 259	\$ 2,000
Junior Class	\$ 3,500	\$ 3,478	\$ 22	\$ 3,000
Junior Trip	\$ 15,000	\$ 8,744	\$ 6,256	\$ 9,000
Oculus (<i>Literary Publication</i>)	\$ 2,800	\$ 2,500	\$ 300	\$ 2,500
Professional Development	\$ 2,500	\$ 2,016	\$ 484	\$ 2,500
Prom	\$ 12,000	\$ 12,375	\$ (375)	\$ 13,000
Senior Appreciation Banquet	\$ 6,000	\$ 6,770	\$ (770)	\$ 6,000
Senior Class	\$ 5,000	\$ 4,841	\$ 159	\$ 3,000
Senior Trip	\$ 35,000	\$ 38,915	\$ (3,915)	\$ 38,000
SGA (includes Clubs within SGA)	\$ 27,000	\$ 27,000	\$ -	\$ 21,000
Sophomore Class	\$ 2,500	\$ 1,458	\$ 1,042	\$ 2,000
Sophomore Trip	\$ 4,500	\$ 4,103	\$ 397	\$ 4,500
Stress Fest	\$ 2,500	\$ 2,500	\$ -	\$ -
T Shirts/Lanyards	\$ 6,000	\$ 5,608	\$ 392	\$ 6,000
Weekend/Special Activities **	\$ 17,000	\$ 17,000	\$ -	\$ 19,000
Winter Formal	\$ 5,500	\$ 5,071	\$ 429	\$ 5,500
Total Expenses	\$ 487,990	\$ 516,741	\$ (28,751)	\$ 489,820
Net Revenue Over(Under) Expenses	\$ -	\$ (29,031)	\$ (29,031)	\$ -

* Central Auxiliary budget expenses

	School Year 2018/19 Budget	School Year 2018/19 Actual	Variance to 2018/19 Budget	School Year 2019/20 Budget
Vehicle/bus Fuel	\$ 8,000	\$ 8,272	\$ (272)	\$ 8,500
Dorm Cleaning Contract	\$ 51,750	\$ 50,603	\$ 1,147	\$ 53,755
Other Professional Services	\$ 26,000	\$ 32,193	\$ (6,193)	\$ 28,000
Driver's Salary Reimbursement	\$ 14,000	\$ 13,933	\$ 67	\$ 14,000
Rentals	\$ 2,900	\$ 1,788	\$ 1,112	\$ 2,235
Telephone Expense	\$ 8,000	\$ 9,227	\$ (1,227)	\$ 10,000
Bus Outings - other than athletics	\$ 1,500	\$ 925	\$ 575	\$ 1,500
AP Test Expense	\$ 30,000	\$ 30,268	\$ (268)	\$ 30,000
Credit Card Vendor Charges	\$ 14,000	\$ 17,825	\$ (3,825)	\$ 18,000
Financial Aid Award	\$ 15,750	\$ 17,594	\$ (1,844)	\$ 16,000
Laundry Machines Expense	\$ 8,000	\$ 10,240	\$ (2,240)	\$ 13,000
Meals and Entertainment	\$ 10,000	\$ 13,898	\$ (3,898)	\$ 10,000
Miscellaneous	\$ 5,960	\$ 14,783	\$ (8,823)	\$ 13,500
Printing/Publications	\$ 1,500	\$ 1,241	\$ 259	\$ 1,260
Registration/Conference Fees/Dues	\$ 1,200	\$ 1,210	\$ (10)	\$ 1,200
Housekeeping Supplies	\$ 39,000	\$ 39,442	\$ (442)	\$ 39,000
Supplies	\$ 20,500	\$ 28,592	\$ (8,092)	\$ 22,000
Postage	\$ 2,000	\$ 1,383	\$ 617	\$ 1,500
PSAT Test Expense	\$ 2,640	\$ 2,944	\$ (304)	\$ 2,950
Chartered Bus Home Weather Evacuation	\$ 12,000	\$ 5,682	\$ 6,318	\$ 11,500
Total Expenses	\$ 274,700	\$ 302,045	\$ (27,345)	\$ 297,900

** Examples of the Weekend/Special Activities include required weekend activities, spirit week, geek fest, socials, parties, goofy olympics, stress fest, and tickets to community events.

Courses for ASMS Board approval for the 2019-2020 Course Catalog

Biology

BL313	Oceanography	.5 CU
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Marine science is an interdisciplinary science field in which geology, physics, chemistry and biology interact in complex ways that are fundamental to the oceanic environment. This course serves as an introduction to physical, chemical, geological and biological oceanography. Current events and topics of interest (ocean acidification, sea level rise, ocean mining, whaling, overfishing, coral bleaching) will be heavily incorporated to give students a solid background in oceanography while also keeping an eye towards developing issues relating to the ocean environment.

Prerequisite: BL101

BL314	Biological Systems	.5 CU
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Students will gain an understanding of the origin, function and structure of living organisms by examining life at increasing levels of biological complexity, from the molecular and cellular level to whole organisms. This course deals with the biology of cells of higher organisms: the structure, function, and biosynthesis of cellular membranes and organelles; cell growth; transport, receptors, and cell signaling; the cytoskeleton, the extracellular matrix, and cell movements. After developing a foundational understanding of cell biology, this course explores the interactions of these cells to form tissue, organs, organ systems and ultimately complete organisms, and finally students will be able to make predictions about how positive feedback mechanisms amplify activities and processes in organisms based on scientific theories and models.

Prerequisite: BL101

Computer Science

CS116	Data Science with Python	.5 CU
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Programming concepts are introduced in this Python course. The pace of the course is designed to lead to mastery of each of the topics discussed in class. Simple data analysis will be used as the programming exercises through the course. The course will focus on planning and organizing programs, as well as the grammar of the Python programming language. You can do the programming assignments for the class using a web browser, your personal computer or PyCharm. You will create visualizations of data using matplotlib, import data from Excel and SQL, work with API data, and manipulate DataFrames with pandas.

Prerequisites: CS101 (Computer Science Principles) and MA-205 (Statistics)

CS117	Microcomputer Applications	.5 CU
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This course provides an overview of common business office technology usage, including operating systems functions, Internet technologies, and productivity suites. The course focuses on basic working knowledge and hands-on experiences in word processing, spreadsheet processing, relational database processing, and presentation software.

Prerequisites: CS101 (Computer Science Principles)

CS140	App Development	.5 CU
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App Inventor for Android is an open-source web application originally provided by Google, and now maintained by the Massachusetts Institute of Technology (MIT). This program will allow newcomers to computer programming to create software applications for the Android operating system. It uses a graphical interface, like Scratch the Cat, which allows users to drag-and-drop visual objects to create an application that can run on Android devices.

Prerequisites: CS101 (Computer Science Principles)

CS210	Database Design & SQL	.5 CU
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Database Design and SQL (Structured Query Language) will be introduced in this course using relational databases. Students will be introduced to a history of database management covering hierarchical, network, relational and object-oriented models with a focus on the relational model and its operators. Students will be presented with a methodology for relational database design using Entity Relationship Diagrams and normalization of data. An overview of the functions of the Database Management System (DBMS) and of a Database Administrator (DBA) will also be presented.

Prerequisites: CS101 (Computer Science Principles)

CS216	C#	.5 CU
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Students will learn basic C# programming, various advanced concepts related to the C# programming language, and the integrated development environment for C# that includes drag and drop creation of forms. IntelliSense is used to introduce students to event driven programming. Students will be introduced to MVC concepts including system components and their interaction.

Prerequisites: CS101 (Computer Science Principles)

CS220	Webpage Development	.5 CU
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Every webpage you look at is written in a language called HTML. You can think of HTML as the skeleton that gives every webpage structure. In this course, we'll use HTML to add paragraphs, headings, images and links to a webpage and then combine that with CSS to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications. Then we'll learn JavaScript to update and change both HTML and CSS. JavaScript can calculate, manipulate, and validate data. With these three languages, you will have the skills to bring your website design to life.

Prerequisites: CS101 (Computer Science Principles)

CS311, 312, 313	AP Computer Science A I, II, III	.5 CU/quarter
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This course teaches programming in a problem-driven way that focuses on problem solving rather than syntax. We make introductory programming interesting by using thought-provoking problems in a broad context. The central thread of early chapters is on problem solving. Appropriate syntax and library are introduced to enable readers to write programs for solving the problems. To support the teaching of programming in a problem-driven way, the course provides a wide variety of problems at various levels of difficulty to motivate students. To appeal to students in all majors, the problems cover many application areas, including math, science, business, financial, gaming, animation, and multimedia.

The course focuses on fundamentals first by introducing basic programming concepts and techniques before designing custom classes. The fundamental concepts and techniques of loops, methods, and arrays are the foundation for programming. Building this strong foundation prepares students to learn object-oriented programming and advanced Java programming. Students are expected to take the AP Computer Science A Exam in the Spring.

Prerequisites: CS101 (Computer Science Principles)

CS321, 322, 323 **Advanced Java I, II, III** **.5 CU/quarter**

This comprehensive version covers fundamentals of programming, object-oriented programming, GUI programming, algorithms and data structures, concurrency, networking, internationalization, advanced GUI, database, and Web programming. It is designed to prepare students to become proficient Java programmers.

Prerequisites: CS311, CS312, and CS313 (AP Computer Science A) & CS210 (Database Design and SQL).

CS415 **Computer Ethics** **.5 CU**

This course will survey the various issues surrounding computer ethics. The goal is to examine different ethical situations that arise in IT as well as offer practical advice for addressing those issues. Topics include Internet Crime, Privacy, Freedom of Expression, Intellectual Property, etc. For each chapter, the students will be introduced to an ethical dilemma where they will be prompted to list each alternative, consider the consequences, and implement a decision.

Prerequisites: CS101 (Computer Science Principles)

General Elective

GE103 **ASMS Fellows Research Program** **.50 CU/quarter**

Students will develop a plan of action to explore a problem in today's communities which allows for scientific discovery over the course of their Junior year. Successful completion will include a research paper, product, portfolio and presentation. Students will be able to demonstrate accumulated skills in time-management, research, problem-solving, human interaction, organization, public-speaking and self-sufficiency. Students must be enrolled for three terms to receive credit for this class. Students will receive a WF if they do not complete the entire sequence. .5 credits will be earned each term which will be awarded in full at the end of the third term.

Requirement: Junior status, application process.

History

HS209 **African American History** **.50 CU**

This course explores the major themes in African American history, from its roots in fifteenth-century West Africa to contemporary U.S. society. Course materials cover the major political, economic, social and cultural factors that have shaped the African and African American experience in the United States.

Prerequisite: Junior standing.

HS100 **Human Geography** **.50 CU**

Human Geography is an historical and systematic study of patterns and processes that have shaped human understanding, use, and alteration of the earth. Students learn to employ spatial concepts and landscape analysis to examine past and present human social organization, migration patterns, demographics, geo-political considerations, economic and urban development as well as human impact on the environment. This class will use current GIS applications allowing students to learn the current methods and tools of professional geographers.

Required for Sophomores.

Physics

PH209

Mechanical Engineering

0.5 CU

The principles of statics and dynamics are essential in the field of mechanical engineering. This course is designed to introduce students to these principles and how they are used in real mechanical structures in preparation for future college courses. Students will be able to use these principles to analyze simplified real world examples of mechanical structures, such as cables, beams, bridges, and machines, to determine conditions for static or dynamic equilibrium. Students will also research and learn more about the field of mechanical engineering and how it differs from other engineering disciplines.

Prerequisite: PH090