Dear Science Faculty and Staff,

2018 – what a year!

Like you, I will be wearing orange on Dec. 29th and hopefully Jan. 7th! This is a great opportunity to wear orange on the day Clemson posts its fourth consecutive win over South Carolina. Clemson also played to win the SEC and the College Football Playoff this year. Such victories were possible because of your hard work, dedication, and outstanding skills in learning and teaching. This is a momentous moment for our College.

Thank you for all you do to help advance Science in pursuit of excellence. What a year it has been in pursuit of excellence in scientific discovery, learning and engagement. As we set our 2019 goals and beyond, we dare to dream big!

Please visit clemson.edu/science for more SCIENCE: Visit clemson.edu/science

Sincerely,

Matt Brittain
Dean}

Bylaws approved at Faculty Meeting

The Faculty of the College of Science met Thursday, Dec. 20, to consider minor and major amendments to the College of Science Bylaws. All amendments were approved. The meeting was attended by 63 voting members and more than 100 faculty and staff overall. A festive reception that included a hot chocolate bar, cookies and Science swag was held after the conclusion of the meeting.

Student leaders help recruit best and brightest

In May 2018, Clemson's 2018-19 Student Ambassadors and COSMIC Science Ambassadors helped recruit and connect with the best and brightest students during Clemson's National College Showcase. This event offers top high school seniors the chance to learn about the University and its academic programs, while meeting current and incoming students and ambassadors. The 2018-19 Student Ambassadors and COSMIC Science Ambassadors were selected from within the College of Science. The program is supported by the College of Science and the Office of Student Life.

Michigan team tours Clemson SCALE-UP classroom

Teachers and administrators from Rockford, Michigan, toured Clemson's SCALE-UP classroom located in Cooper Library, Room 200-B, on Monday, Nov. 26. The Michigan team tours Clemson SCALE-UP classroom to learn about how Clemson is reshaping instruction for its students in hopes of applying the active-learning model to its own SCALE-UP classroom that is currently under construction in Rockford.

Meet our 2018-19 Student Ambassadors (in orange) and 2018-19 COSMIC Science Ambassadors.

Chandler Gilliard, Nicole Register, Maggie Paullier, Hailey Lovelace, Gabriella Wheeler, Jonathan Chui, Emily Lott, Haley Fulton, Laura McCann, Alexis McCollum, Alexis Harris, Fadiana Mendoza, Breanna Johnson, Megan Johnson.

Clemson astrophysicists showcased in prestigious journal Science

From their laboratories on a rocky planet dwarfed by the vastness of space, Marco Ajello and a team of Clemson astrophysicists showcased in a prestigious journal Science the ability to measure all of the starlight ever produced throughout the history of the universe.

Atlantic media outlets, including The New York Times, Washington Post, CNN, Discover Magazine and The Atlantic, have picked up on the story of a gamma-ray source called 1ES 1101-232. This unique gamma-ray blazar lies 2.3 billion light-years away in the constellation of Aquarius. The team of researchers led by Ajello, professor of physics and astronomy, has determined how much starlight has been produced throughout the history of the universe up to that point in the picture. Their research is described in the paper titled "A gamma-ray blob reveals 10 billion years of star formation" and published in Science, the journal of the American Association for the Advancement of Science.

Here are some upcoming events and activities in the College of Science.

Jan. 9:

Spring classes begin.

Undergraduate Spring convocation starts at 2 p.m. in the Brooks Center.

New-student orientation will be held across campus throughout the day.

SCIENCE graduation ceremony starts at 1:30 p.m. in Littlejohn Coliseum.

Fall 2018 Doctoral Hooding ceremony starts at 3 p.m. in the Brooks Center.

Jan. 8:

Watch Video: Clemson SCALE-UP Classroom

Forward

Michelle Strong is the Universitywide Director of Clemson's SCALE-UP initiative. Early this year, the Michigan team toured the SCALE-UP classroom in hopes of visiting Clemson and gaining firsthand experience with SCALE-UP classrooms.

New imaging technique aims to find even the smallest of cancerous tumors

Clemson researchers use a new imaging technique to show the presence of cancer cells in the brain. The technique, described in a new paper recently published in the journal Cancer Letters, could help detect cancer cells that are too small for any other imaging technique to see.

Clemson researchers reveal secrets of parasite that causes African sleeping sickness

Also from the School of Biological Sciences comes news that researchers at Clemson have uncovered the secrets of a parasite that causes African sleeping sickness. The paper, published in the journal Frontiers in Cellular and Infection Microbiology, describes a new enzyme discovered in the parasite that causes African sleeping sickness. The researchers have also shown that the enzyme is present in the body of a patient who is infected with the parasite that causes African sleeping sickness.

New SCIENCE Student Ambassadors introduced

Bufford at sbuffor@clemson.edu.

Clemson researchers reveal secrets of parasite that causes African sleeping sickness

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