

# Planning for Committee of Visitors Review of the BES Chemical Sciences, Geosciences, and Biosciences Division

## Briefing to BESAC July 30, 2020

Bruce Garrett, CSGB Division Director Basic Energy Sciences Office of Science, U.S. Department of Energy

- The first SC-BES COV was held in 2002 with a review of BES Chemical Sciences
- This will be the seventh CSGB COV. All previous COV reports and BES responses can be found at: <u>https://science.osti.gov/bes/besac/BES-COV</u>
- BES COVs are a BESAC activity.
- COV reports are approved by BESAC and recommendations are taken seriously by BES
  - Creation of Portfolio Analysis and Management System
  - Improved documentation of award decision making process
  - Additional resources for program manager travel
  - Endorsement of use of white papers as a key aspect of communication with the community



 For both the DOE laboratory projects and the university projects, assess the efficacy and quality of the processes used to:

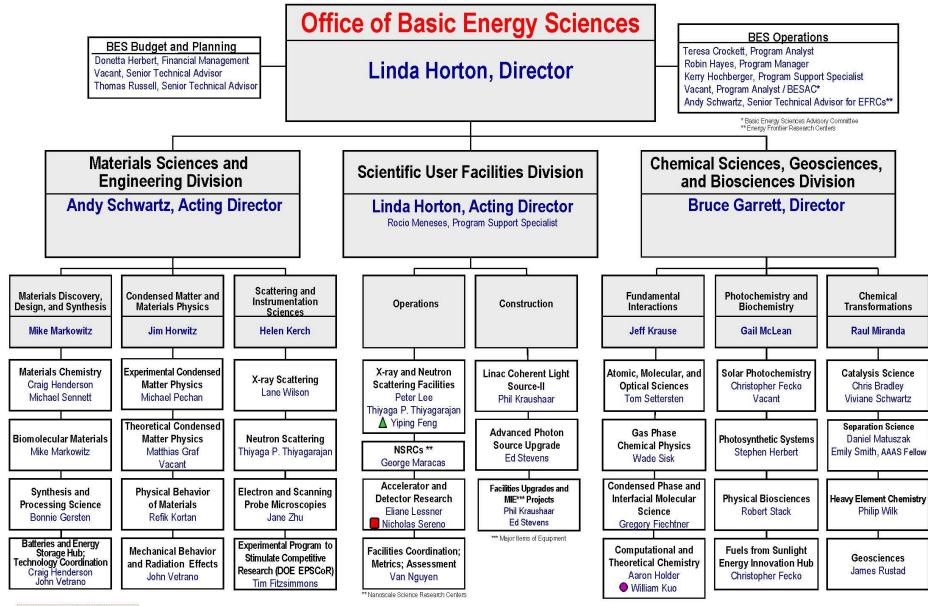
(a) solicit, review, recommend, and document proposal actions, and(b) monitor active projects and programs.

2. Within the boundaries defined by DOE missions and available funding, comment on how the award process has affected:

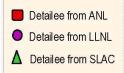
(a) the breadth and depth of portfolio elements, and

(b) the national and international standing of the portfolio elements.

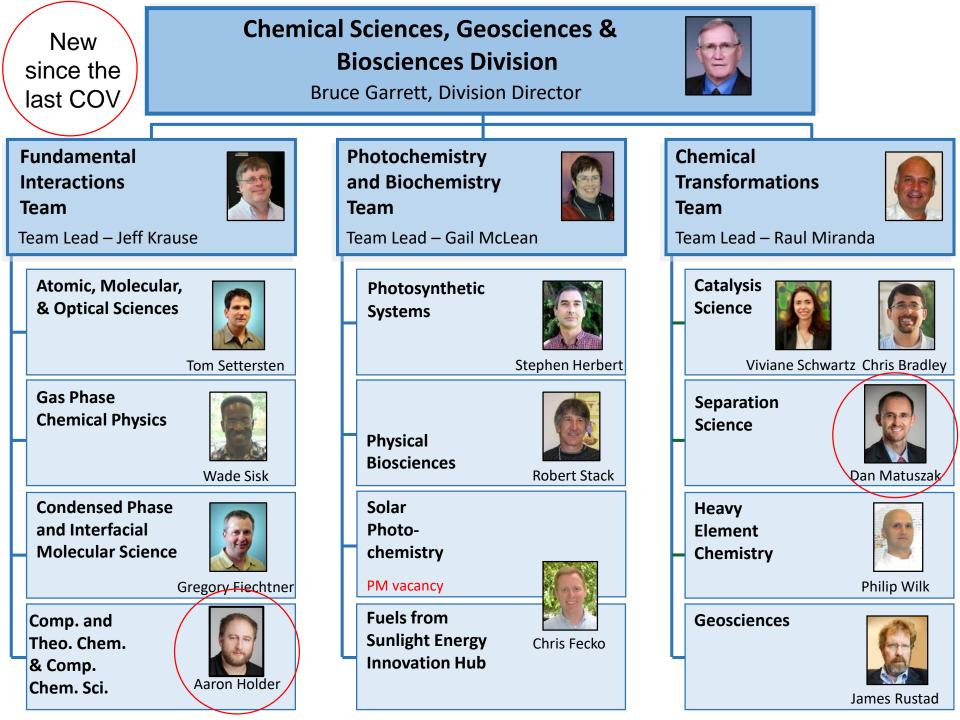




#### LEGEND







#### CSGB Division – by the Numbers

- CSGB has an annual budget of ~\$360M
  - EFRCs and Hub are ~\$70M
  - Funding: 50% universities, 50% national laboratories
  - 11 core research areas
  - Active projects: >500 university, ~95 national laboratory
- CSGB staffing
  - 3 team leads
  - 12 program managers (1 vacancy)
- Annual new and renewal proposals: 700 750
- Annual progress reports: >500
- Annual preapplications (white papers): ~700



## COV will review proposal decisions from FY 2017 – 2019

- Solicitations covered:
  - Office of Science Annual Funding Opportunity Announcements (universities only)
  - FY 2017 2019 Early Career Research Program (universities and labs)
  - FY 2017 Computational Chemical Sciences (labs only)
  - FY 2018 Computational Chemical Sciences (universities and labs)
  - FY 2017 Scientific Discovery through Advanced Computing
  - FY 2018 2019 Materials and Chemical Sciences Research For Quantum Information Science (universities and labs)
  - FY 2018 Research at the Frontiers of X-Ray Free Electron Laser Ultrafast Chemical and Materials Sciences (universities and labs)
  - FY 2019 Data Science for Discovery in Chemical and Materials Sciences (universities and labs)
- New and renewal applications from National Laboratories



### Exclusions of proposal decision from COV

- The COV will not review actions from other solicitations such as:
  - Energy Innovation Hubs
  - Energy Frontier Research Centers
  - SC Graduate Fellowship Program
  - EPSCoR
  - SBIR/STTR



### FY 2020 BES-CSGB Committee of Visitors

- Chair: Andrew Stack, Oak Ridge National Laboratory
- Virtual meeting using Zoom
- Dates: September 8-11, 2020
- PAMS-based COV
- 18 COV panelists organized into 3 panels (centered on the 3 CBGB Division programmatic teams)



#### Panel Structure and Membership

#### Panel 1: Fundamental Interactions, Kelly Gaffney, SLAC

	Aurora Clark	Washington State University
	Mette Gaarde	Louisiana State University
	Niri Govind	Pacific Northwest Natl Laboratory
	Amy Mullin	University Maryland
	Thomas Orlando	Georgia Tech
Panel 2:	Photochemistry and Biochemistry, Joan Broderick, Montana State U	
	Matt Beard	National Renewable Energy Laboratory
	Gary Brudvig	Yale University
	Marilyn Gunner	City College University New York
	Carrie Harwood	University Washington
Panel 3:	Chemical Transformations, Laura Pyrak-Nolte, Purdue University	
	Rebecca Abergel	Lawrence Berkeley National Laboratory
	Paul Johnson	Los Alamos National Laboratory
	Robert McCabe	National Science Foundation
	Lynda Soderholm	Argonne National Laboratory
	Krista Walton	Georgia Tech



- Preliminary activities (1-2 weeks before COV)
  - presentations and background material available to COV, Zoom/PAMS training
- Day 1 (1-5 PM ET)
  - Plenary session: welcome, BESAC charge, BES and CSGB overviews
  - Panel breakout sessions: brief portfolios overviews from CSGB team leads; first read of selected packages by COV; Program Managers on call
  - Executive session (chair/panel leads): assessment of key elements and gaps
- Day 2 (11-4 PM ET)
  - Panel breakout sessions: panelist continue review, Program Managers on call
  - Executive session (all COV): discuss output from panels, identify key observations, and decide if other reviews are needed
  - Check-in Meeting: Chair briefs BES on progress, gets clarification on issues
- Day 3-4 (11-4 PM ET)
  - Flexible schedule as needed to complete review and write draft of panel reports
  - Executive session (all COV): discuss key findings & recommendations
  - Closeout plenary session: presentation of major findings and recommendations



## **Questions/comments?**

