AMS Board on Higher Education

An Overview of
Recent Accomplishments
and Ongoing Activities

Monday, October 7, 2024

Wendilyn Flynn, BHE Chair
(she/her/hers)

BHE Members & AMS Staff



21 members in total

Restructuring BHE: Chair progression (current, incoming chair, past); ToR, Charter, new standing subcommittee on 2YC

BHE: 16 Core Members

3-year terms

- **Wendilyn Flynn** – Chair (UNCo)
- **Zak Handlos** - Incoming Chair (Georgia Tech)
- **Stephen Bennett** (Demex)
- **Jeremy Berman** (IBM)
- **Kevin Bowley** (Penn State)
- **Maura Hahnenberger** (Salt Lake CC)
- **Matthew Lazarra** (Wisc)
- **Alicia Klees** (Univ. Illinois)
- **Elinor Martin** (OU)
- **Esther Mullens** (Univ. FL)
- **John Ogren** (NWS, Chief Education Officer)
- **Tony Praino** (IBM)
- **R. Suseela Reddy** (Jackson State)
- **Alan Srock**** (SCSU)
- **Robin Tanamachi**** (Purdue)
- **Dave Vollmer** (CC)

Student Members (3):

1-2 year terms

- **Cameron Paquette** (Graduate Student, UAlbany)
- **Lindsey Peterson** (Undergraduate Student, Purdue)
- **Kellie Thrower** (Undergraduate Student, UND)

Ex-Officio Members (2):

Student Conference Advisors

- **Montana Etten-Baum** (UND)
- **Kim Wood**** (U Arizona)

Blue = Academic, Purple = 2YC, **H&C Planning Committee

community.ametsoc.org/volunteer-with-ams

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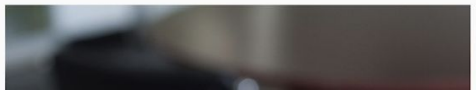
AMS Community
American Meteorological Soci

Home | Volunteer Opportunities | search



Volunteers are an essential and valuable part of AMS. With the help and support of boards and committees, local chapters, journal reviewers, and many more volunteers, AMS is able to promote the advancement of the atmospheric, oceanic, hydrologic, and related sciences to the weather, water, and climate community and beyond. There are many ways to volunteer your time:



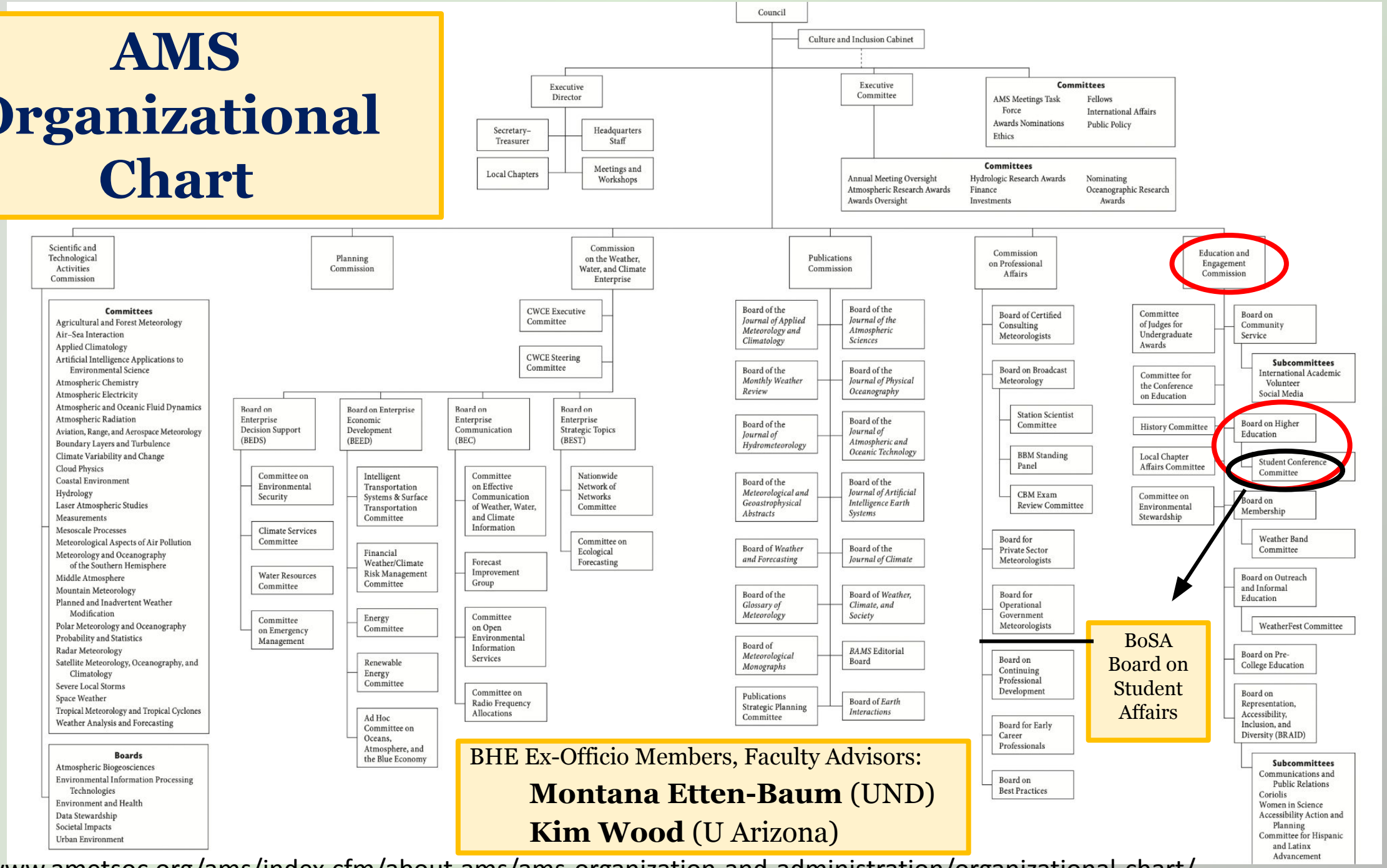




Apply to become a BHE Member, or nominate someone!

Open through Nov 1

AMS Organizational Chart



https://www.ametsoc.org/ams/index.cfm/about-ams/ams-organization-and-administration/organizational-chart/

AMS Bachelor's Degree Statement Revision

- Zak Handlos – Chair
- Stephen Bennett (MtG, BP)
- Wendi Flynn (BP)
- Jana Houser
- Andrea Lang (MtG)
- Steve Nesbitt
- John Ogren
- Tony Praino (MtG, BP)
- Alan Srock
- Loren White

Approved by Council November 2023

- New: ***guidance*** document – with links!
- Developed revisions in-step with other initiatives (Mind the Gap, BP on Preparing Students for Private Sector, Dynamics Survey)
  - Ensure agreement between documents in-construction
  - Used community survey results and conclusions from other initiatives

GOALS:

Continue to add supplemental documents as they are created

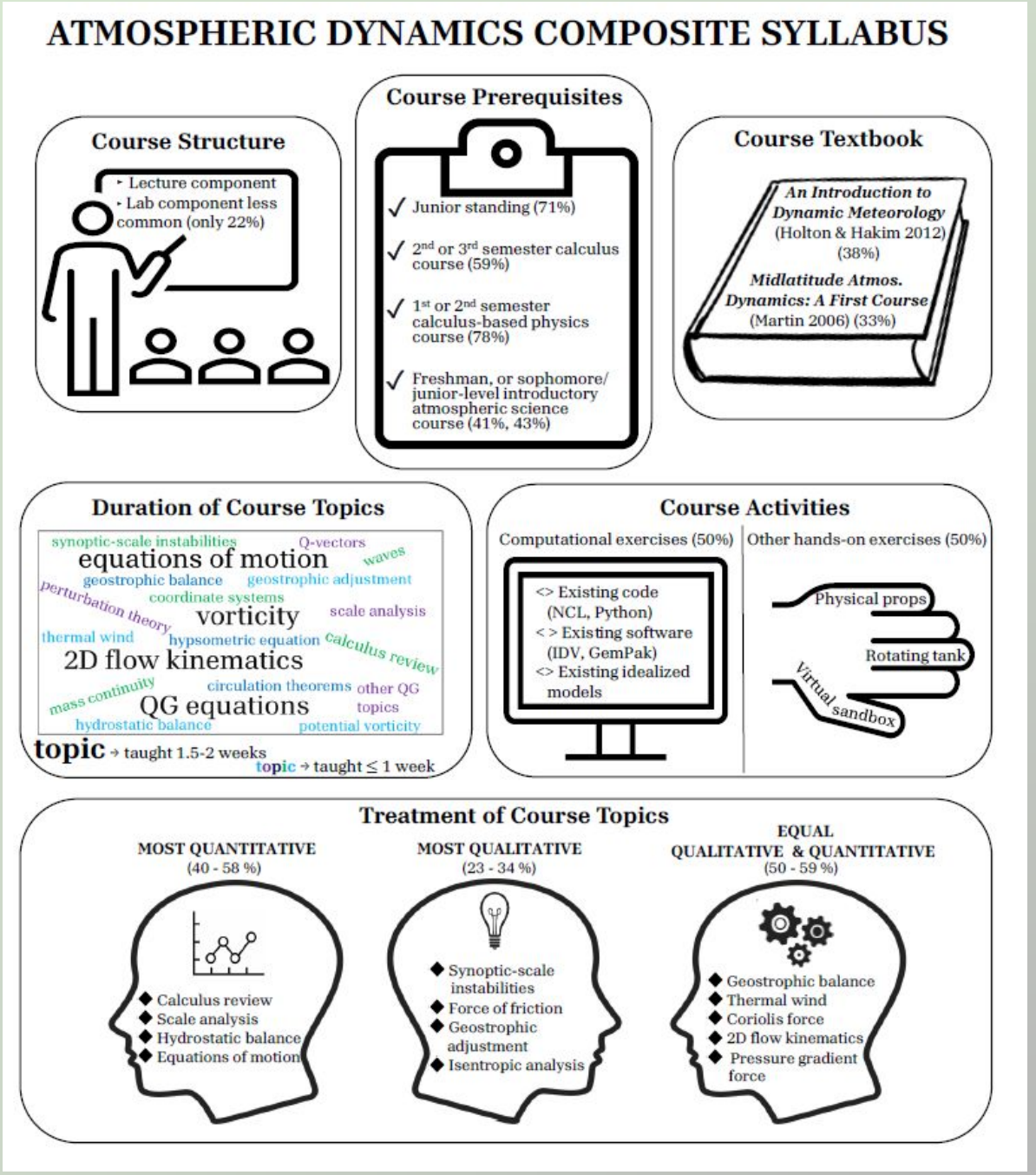
Contribute to GS-1340 discussion



Dynamics Survey Team

- Matthew Barlow
- Wendi Flynn
- Casey Davenport
- Zak Handlos
- Alicia Klees
- Esther Mullens

Figure (right) from our forthcoming BAMS Article: **Composite "syllabus" showing the most common findings from the survey.**



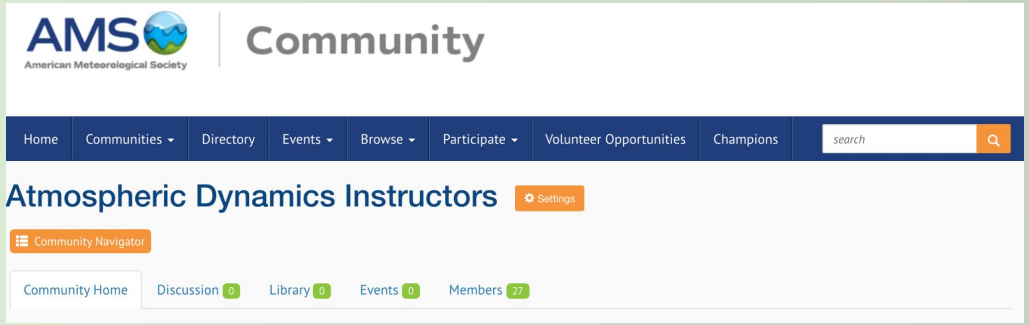
- **2023**: Two presentations at AMS Annual Meeting
- **2024:** Submitted to BAMS in August as 45 Beacon article: *'What Does a Modern Atmospheric Dynamics Course Look Like?'*

Dynamics Survey Team

- Matthew Barlow
- Wendi Flynn
- Casey Davenport
- Zak Handlos
- Alicia Klees
- Esther Mullens

Next steps: Brainstorming for NSF proposal to fund workshop w/ goals of:

- **Sharing and peer reviewing active learning activities** for **atmospheric dynamics**
  - special emphasis on refining activities to be more accessible (inclusive teaching expert participant)
- Build a **repository** of activities





Building Connections with 2YC Programs

- Tony Praino
- Maura Hahnenberger
- Matthew Lazzara
- Esther Mullens
- Elinor Martin
- Tiffani Wilke
- Rick DiMaio
- John Knox
- Beth Mills (AMS)
- Aaron Price (AMS)

Progress toward new incarnation of "Curricula"

Goals

1. **Create 2YC and 4YC connections**. Determine how AMS can help enable this and what resources can be provided to facilitate this.
2. Increase faculty engagement and opportunities within AMS.

Completed Tasks

1. Created **2YC and transfer-related section in MS Bachelor's degree statement**.
2. Participated in Strengthening Engagement between Disciplinary Societies and Community Colleges virtual workshop. Created Goals and Action Plan.
3. Conducted **survey of 2YC faculty in atmospheric sciences and meteorology**.
4. Held **2YC focused session at AMS Annual 2024**.
5. Created list of atmospheric sciences and meteorology programs and faculty at 2YCs.
6. Increased 2YC representation on AMS BHE.

Goals and Ongoing Work

1. **Publish list of 2YC (and 4YC) meteorology and atmospheric sciences pathways and programs.**
2. Develop **publication of survey results** and 2YC work.
3. Hold **2YC focused session at AMS Annual Meeting 2025**.
4. Submit (and get!) workshop proposal for workshop on 2YC-4YC connections and transfer.

ASER: Atmos Sci Education Research

- Dawn Kopacz
- Lindsay Maudlin
- Wendi Flynn
- Casey Davenport
- Zak Handlos
- Peggy McNeal



BHE Supported

- BAMS Special Collection gaining articles
- AMS Annual Meetings Conference on Education:
  - ASER sessions
  - **2025: Presidential Session**
- Communities: Listserv, AMS Community
- Upcoming online **BHE/ASER monthly meetups**
  - Informal presentations on education
  - October 18

GOALS: Increase visibility of ASER; Build & support ASER community

AMS Awards - BHE

Lorenz (Teaching Excellence) Award

This year's winner (already announced):

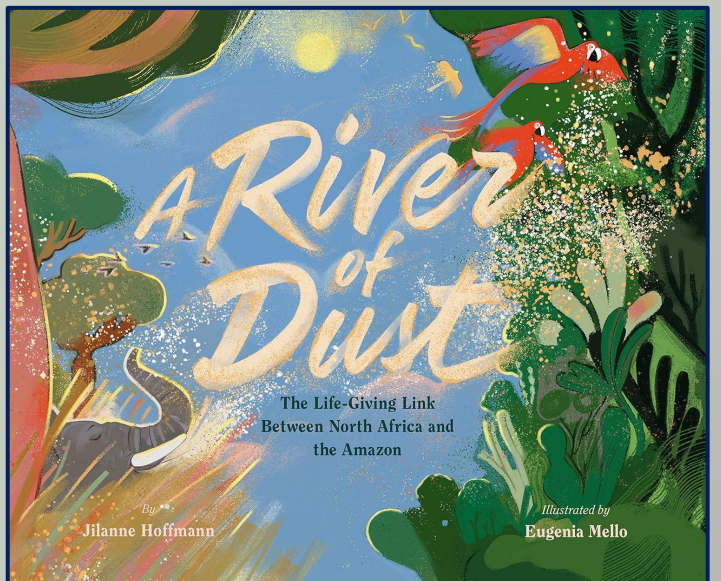
Marty Baxter, Central Michigan University

For selfless dedication and persistence to teaching and mentoring, tireless advocacy and support for all students, and innovative strategies for preparing students for any career path

- Nomination Packages due by May 1
  + *Nominate your colleagues!*
- Award for academics in a college or university setting
- Use award verbiage to discuss each package: *teaching* and *mentoring*
- *Packages valid for 3 year period!*

Author and Journalism Awards

- The Louis J. Battan Author's Award - Adult
- The Louis J. Battan Author's Award - K–12
- The Award for Distinguished Science Journalism in the Atmospheric and Related Sciences



AMS Mind the Gap Committee Connections



BHE Connections

- **Workshop** held at SUNY-Albany in **June 2022**
- Several BHE participants & organizers involved in **follow-on work**

- **Stephen Bennett**, *The Demex Group*
- **Heidi Centola**,*The Weather Company*
- **Victor Gensini**, *Northern Illinois University*
- **Sue Ellen Haupt**, *NCAR*
- **Andrea Lopez Lang**, *SUNY Albany*
- **Max Vido**, *ACES Power*

Best Practices: Preparing Students for the Private Sector

- Alicia Wasula – Chair
- Stephen Bennett
- Dan DePodwin
- Wendi Flynn
- Timothy Hall
- Brent Shaw
- Lance Steele
- Douglas Stolz
- Tony Praino

BHE Connections

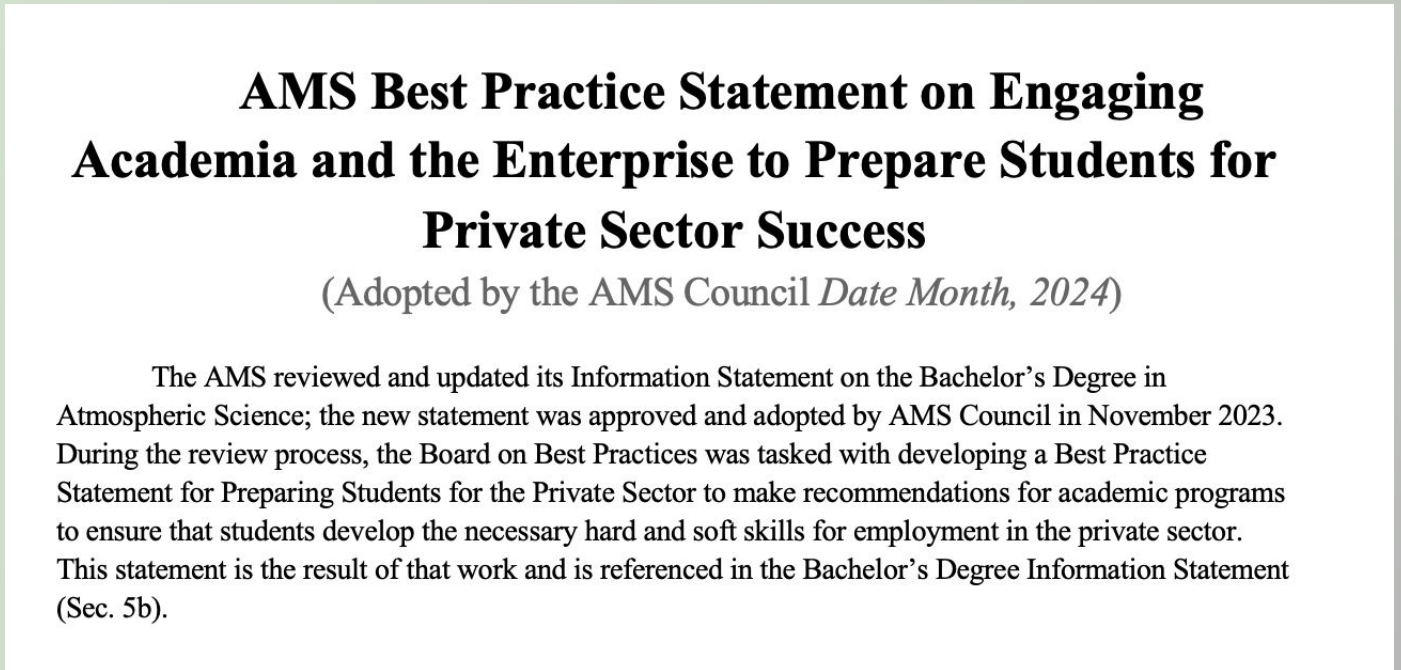
Acts as **supplement to the AMS Bachelor's Degree Information Statement**; **linked within document**

- In second round of revisions, to be re-submitted to council
- Focus on general recommendations up front (talk coming up this session)

GOALS:

** Gain approval!

Use as model for other BP statements linked to Bachelor's Degree Statement



AMS Best Practice Statement on Engaging Academia and the Enterprise to Prepare Students for Private Sector Success

(Adopted by the AMS Council *Date Month, 2024*)

The AMS reviewed and updated its Information Statement on the Bachelor's Degree in Atmospheric Science; the new statement was approved and adopted by AMS Council in November 2023. During the review process, the Board on Best Practices was tasked with developing a Best Practice Statement for Preparing Students for the Private Sector to make recommendations for academic programs to ensure that students develop the necessary hard and soft skills for employment in the private sector. This statement is the result of that work and is referenced in the Bachelor's Degree Information Statement (Sec. 5b).

Best Practices: Preparing Students for the Public Sector

Best Practices: Preparing Students for Climate Science Careers

Just beginning!

White Papers will be in development soon…

Discussion & Open Forum at end of Meeting

- In the past… resolutions, ideas for the next Members Meeting or Heads & Chairs Meeting, action items for AMS

<u>Post-meeting survey:</u> Provide input on this meeting, suggestions for future H&C Meetings, and how AMS and BHE can support higher education

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