SU2 Foundation

Academics' Perspective

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Academic: Member Definition and Role

- The group of Academics is represented by the **Academic Board Member**.

- The Academic Board Member (a) gathers information and overall consensus from the **Academic Constituents** regarding decisions, strategies, trends, etc. by means of periodic virtual and in-person meetings, and (b) informs the **Academic Constituents** of actions / decisions / strategic direction of the SU2 Foundation.

- **Academic Constituents** are research institutions (university, government research lab, other research laboratories, etc.) that participate in meetings called by the **Academic Board Member** and **meet the criteria described in the next slide**. An institution has right to one single vote.

- The **Academic Board Member** is selected by vote of **Academic Constituents** in good standing **and** present (in person or virtually) at the meeting called for this purpose.

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Criteria for Academic Constituents

In order to participate in meetings called by the **Academic Board Member** and to vote on behalf of an institution, the **Academic Constituent** must be in good standing.

For this purpose, the **Academic Constituent** must have fulfilled, in the last 2 years, <u>at least one of these requirements</u>:

- Published at least one paper about using or developing SU2, in an accredited conference or journal,

- Contributed "significant amount of code" (as defined by the group), or

- Have contributed in a meaningful and substantial way to the activities of the foundation. Examples include: promotion of SU2, code review activities, generation of documentation and tutorials, delivering of webinars, participation in annual meetings, etc.

The **Academic Board Member** has final say, after consultation with other **Academic Constituents,** regarding the right to be a constituent and to be able to vote.

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Academics viewpoint: Assessment of the SU2 Project Today

All of them will be taken care by Foundation

Sweet spots to keep/strengthen:

- Open source nature, strong community

- Longevity of code base / stable and well-maintained "platform" for research

- High-quality code, regression standards, reliability, documentation

- Means of collaboration with industry

- Facilitating and speeding up research

- Maintain a short learning curve of students (favoring code reusability and clear organization)

Pain points to remove/improve upon:

- Clear governance structure

- Lack of resources / focused effort for high-priority code development (infrastructure)

- Missing validation on industrial strength test cases

- Lack of nimbleness for expansion of activities

- Streamlining/software integration

- Availability of information

- Group dynamics (legal aspects)

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Academics: Relationship with the Foundation

How the foundation can support Academics:

- Overcoming limitations listed in the previous slide.
- Maintaining the code base with its software engineers.
- Managing development, direction and growth.
- Foundation as a partner in grant applications.
- Continue to make SU2 preeminent software (reviewers are impressed).

How Academics can support the foundation:

- Generating R&D ideas.
- "Providing" developers / contributing code, V&V, etc.
- Involving industrial partners.
- Help with fundraising efforts.
- Enhancing research reputation.
- Providing infrastructure "for free".
- Co-hosting annual meetings.

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Academics: Proposal for Action

The following foundation actions / programs / services / committees are recommended by the group of Academics:

"One-year" goals

- Copyright assignment to the Foundation, How can this be done?

- Hiring of staff / software engineer(s)

- Streamlining of the code and its development

- Preparation of promotion material for first round of fundraising

"Five-year" goals

- Growing the community with other top groups (extension to Asia)

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