Dear Colleagues,

**Citation: For sustained impact and cross-disciplinary breakthroughs in diverse phenomena of space-time travel, temporal paradox, and Exo-Biology.**

We are excited to nominate Dr. John Smith for the honor of Union Fellow of the Society. John and I both attended the Legion Academy in the 1970s, where John quickly demonstrated his ability to grasp the fundamentals of space-time travel and connect these basics to current open questions. Since our introduction, John and I have continued to collaborate, and it has been a pleasure to see him succeed in his career. In my nomination letter I will provide a broad overview of John’s sustained impact and breakthroughs, highlighting where the supporting letters, CV, and bibliography will provide more information.

John is one of the foremost contributors working towards establishing the link between Space-Time Travel and Exo-Biology in our era. Through his numerous cross-disciplinary collaborations, John has been able to show how his work has made important implications in the subfield of Time Travel, as well as in other subfields such as Space Travel. While his research is primarily theoretical, he has always emphasized the connection of basic physics with observations. John is amply deserving of the Society Fellowship on the basis of both the depth and breadth of his sustained contribution to Physics and the research interests of the Society Fellowship Committee. The results of his research have far-reaching implications in multiple disciplines and each of the submitted letters will reflect on these areas. The supporting letter by Dr. Emitt Brown will highlight their work on flux capacitors and their initial attempts at time (sans space) travel. Dr. Eleanor Arroway will then discuss their work on the necessary interconnectedness of space-time travel and the success of their experimental work. This will be followed by the letter from Dr. Binti from Oomza University focusing on John’s encompassing enthusiasm to embrace new scientific paradigms and collaborations, demonstrating how these qualities distinguish him as a role model for being a supportive collaborator and leading by example in building a trans disciplinary team which enabled their work and its impact on exobiology.

John has an extensive publication record that is the product both of his scientific creativity and the care he takes to build and maintain collaborations. His work with Dr. Emitt Brown resulted in a series of seminal papers, in which John revealed the physics of flux capacitors [see bibliography section Time-travel and specifically Brown and Smith, 2020, reviews in dimensional paradox]. These are the essential building blocks of our understanding of such diverse phenomena as time travel [e.g., Smith et al, 1682 Royal Society], temporal paradox [e.g., Dax et al, 2380, Bajoran Journal of Physics, Smith and La Forge, 2370, United Federation of Planets Technical Report], and ionized hydrogen and helium of interstellar origin [Parker and Smith, 2018, Journal of Space Weather Space Climate]. This work led to new collaborations with Dr. Arroway that incorporated the principles of his work on time travel into her theoretical construct of interstellar space travel [e.g., Smith and Arroway, 2021, The Astrophysical Journal and in the bibliography under section Space-Time Travel]. Together, John Smith and Eleanor Arroway wrote *The Physics of Space-Time Travel*, which has since become an essential textbook for graduate students everywhere (it has currently been translated into 10 different languages).  This work and John’s enthusiasm and continual curiosity led him to reach out to Dr. Binti and Dr. Claire Finn to explore more fully the implication of the new fields that his work with Dr. Arroway had opened up [e.g., Binti, Arroway, Finn, and Smith., 2420, Planetary Union Journal of Universe, Space, and Time travel, Smith, Arroway, and Dax 2000, JGR Space Physics, and the Bibliography section Cross-Disciplinary and Cross Dimensional work]. Perhaps one of the themes throughout John’s research is his love of learning, his continual interest in working with colleagues who will challenge him, and his support of their many endeavors. John has shown a fearlessness to tackle any new area of research which his studies may lead him. Many of the ideas developed by John have implications that stretch from the state-of-the-art observations to deeper theoretical processes, bridging the experimental to theoretical communities, involving dozens of research groups and many authors [see CV section Collaborations and Service].

John has also made many other contributions in fundamental physics. He is an intertemporally acknowledged authority on the physical properties of specific processes in his field [e.g. Smith, Bohr, and Who, 1930, On the Constitution of time particles]. The breakthroughs he made in this area provide the science foundation for the revolutionary studies expected with a number of upcoming Big Missions [e.g. B & T’s Phone Booth PI’d by Dr. Carlin]. Another scientific field that John has pioneered is the study of Exo-Biology. He, along with his team on the Blue Box Mission PI’d by Dr. River Song, performed the first measurements of its kind. These measurements opened up a whole new area of study and has spawned a host of investigations by the outside community. However, as important as these measurements are, their impact would have been trivial without John’s dedication to open science.  He developed the infrastructure at Pacific Tech which guaranteed the research community access to the Blue Box and T&B Phone Booth data.

John’s research community contributions deserve recognition. Beyond the standard of reviewing papers, serving on panels, and committee work, John advocates relentlessly for his collaborators and works tirelessly towards building an inclusive and safe environment for all to work in [See CV section on Service].  John sets the bar in how to make sure to give credit where credit is due. While he is often one of the more recognizable names on papers, he routinely calls out the work done by his collaborators in his own presentations and (as noted by more than one conference convener) will re-direct credit for work mistakenly attributed to him by his peers to his collaborators when appropriate [See CV section Presentations – “It Takes a Team to Innovate New Physics and Safe Space-Time Travel”, Plenary at the Fall AGU meetings 1920, 2020, 2120]. John is a true role model of how to be a good collaborator.

Dr. Smith embodies the best ideals of the Society Fellowship: contributions to science with a broad impact and unparalleled, humble, and sustained scientific and community leadership. His research through his collaborations continues to elevate the Physics disciplines and influences and leads the international science community. He is an exceptional candidate for the Society Fellowship and embodies the qualities that the Society looks to uphold.

Sincerely,

Diana R. Who

Prof. D. R. Who, PhD

Department of Physics

Impressive University.