science walk with laureates or to attend a lunch at a restaurant with a Nobelist. The week was capped by the traditional boat trip to the island of Mainau, where the meeting's host, Bettina Bernadotte, countess of Wisborg, welcomed the group to the sprawling gardens and palace lawn for the week's concluding events.

The meeting program walked a line between a traditional conference and a quirky and unique celebration of science and scientists. And although lots of fun activities were scheduled throughout the week, serious topics, such as climate change and nuclear proliferation, dominated the talks and conversations. On those important topics, the scientists in attendance seemed divided on the appropriate role of physicists in society.

On one hand, we listened to Nobel laureates declare that funding agencies should allow physicists to pursue fundamental research without any justifying application—a statement that was greeted with enthusiastic applause from the audience. And we heard speakers urge the young attendees to focus their efforts on so-called "useless" physics and work on the science that they find fascinating, regardless of the broader applications and implications that the research might have.

On the other hand, sessions included the unambiguously titled "Physics-Based Solutions to the Energy Challenge" and "The Role of Physics in Solving Global Problems of the 21st Century." And many of the panels, Agora Talks, and events hosted by governmental, academic, and business partners were centered around discussions of practical applications of physics.

That action-minded stance on the role of scientists was demonstrated on the

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last day of the meeting, when we witnessed the Nobel laureates in attendance sign the Mainau Declaration 2024 on Nuclear Weapons. The document implores that "all nations must commit to ensuring that nuclear weapons never be used again." It echoes a plea signed on Mainau Island in 1955 by many of the scientists whose work had made such weapons possible and who sought to limit their discoveries' devastating effects on humanity. A similar declaration on climate change was signed in 2015, warning about the need for research and action.

The two of us departed this year's Lindau meeting with more questions than clarity on a fundamental and pressing matter: What responsibility do scientists have both to engage in research aimed at addressing global challenges and to participate in the ongoing conversations surrounding how the work will be used to shape our global community in the coming decades?

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Demands on earlycareer faculty

n his article "Early-career faculty face many challenges" (Physics Today, October 2024, page 40), Alex Lopatka effectively points out some of the barriers to building a research program. But his discussion of teaching and teachingrelated duties is brief, and when he does discuss them, he states, "Teaching pressures are common and add to faculty members' already busy schedules." The phrasing seems to imply that teaching is in competition with and of lower value than research. And notably, of the six questions Physics Today asked early-career faculty members for this article, none mention teaching.

The article's treatment of teaching is surprising to me. Fellow early-career faculty, at both large research universities and primarily undergraduate institutions, have told me that teaching and engaging students is a major challenge of theirs. The popularity of resources such as the Faculty Teaching Institute, which at least 2 of the 10 questionnaire respondents said they attended, speaks to this challenge.

Many academic institutions place a disproportionately low weight on teaching in their tenure evaluations, and the article's heavy bias toward research perpetuates that disproportion. But the undervaluation of teaching by some does not change the fact that it's inherently a high-value activity and worth doing well.

Finally, despite having a section titled "Finding students," the article misses an opportunity to point out that teaching can be a great way to scout for research talent and recruit students. I personally try to approach my tenure requirements by looking for synergies—for example, between teaching and research, between grant writing and service, and between outreach and parenting my kids. That not only makes being an early-career faculty member more manageable—it makes it more fun.

Reference

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very much enjoyed Alex Lopatka's article "Early-career faculty face many challenges" (Physics Today, October 2024, page 40). In particular, when I read that "at a small liberal arts school, the pressures of research may be less, but the teaching load is likely larger" and then looked at the hypothetical daily schedule for an "academic" (page 43), I laughed out loud! Whatever will our "academic" faculty members do? They have a three-hour teaching load — how shocking!

I have been blessed to have a career spent in positions in colleges and universities that have a primary emphasis on teaching and a lower level of research expectation. In 29 years as a professor, my lightest teaching load for any