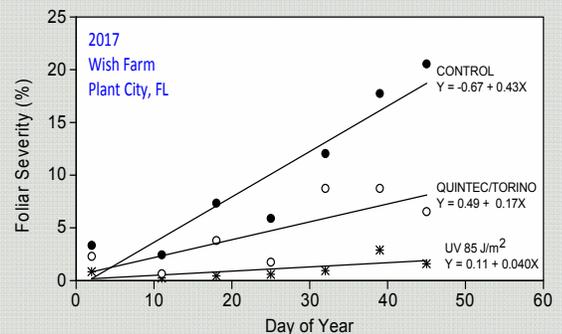


The Illumination for Plant Health (IPH) program at the Lighting Research Center (LRC) at Rensselaer Polytechnic Institute works closely with industry, government, commercial growers, and other interested stakeholders to advance innovative strategies for plant disease control. The goal of the IPH program is to develop sustainable disease management solutions while increasing plant health, such as crop production and flavor, using the latest lighting technologies, to apply research results in practice for a greater understanding of their applicability, and to educate stakeholders on the use of lighting technologies to control plant diseases.

Established in 1988, the LRC has been pioneering research in solid-state lighting, light and health, transportation lighting, and energy efficiency for nearly 30 years. The LRC is the largest university-based lighting research and education organization in the world, with 35 full-time faculty and staff, and state-of-the-art photometric laboratories accredited by the National Voluntary Laboratory Accreditation Program (NVLAP Code: 200480-0). The LRC regularly collaborates with Cornell University, the University of Florida, the Norwegian University of Life Sciences, and the Norwegian Institute of Bioeconomy Research.



*Testing of tractor towed lighting apparatus for control of powdery mildew of strawberry.*



*UV treatments were significantly more effective than alternated sprays of Quintec and Torino for control of strawberry powdery mildew. The experiment was conducted by collaborative efforts from the Lighting Research Center at Rensselaer Polytechnic Institute, Cornell University, and the University of Florida.*

## Program of work

IPH activities are directed toward the research interests of members. IPH can conduct many types of work including research and development, evaluation and testing, professional guidance, lighting design, grower surveys, and educational outreach.

Topics of interest to the alliance may include:

- Plant-pathogen interactions in the presence of optical radiation
- Organic pest management strategies that complement existing integrated pest management strategies
- Emerging visible light and ultraviolet LED technologies for plant health
- Lighting to combat plant diseases and other pests
- Lighting to improve plant health (production, flavor, appearance, etc.)
- Lighting apparatus design for field or controlled environmental conditions
- Dose targeting for field and controlled environmental conditions
- Education and outreach on lighting for plant diseases and pests

## Member benefits

- Shape the IPH agenda
- Leverage your sponsorship with funding from other IPH members
- Gain priority access to research; learn IPH research results before other stakeholders
- Generate pilot data, an essential requirement for funding from federal and state governments, which would directly benefit IPH members
- Logo placement; your logo will be placed on the LRC website, which receives 200,000 average page views per month

## Membership cost

\$30K per year; \$15K per year for LRC Partners.

A three-year commitment provides an additional \$5K discount per year.



**If you are interested in joining the Illumination for Plant Health (IPH) Alliance, please contact Dr. Jaimin Patel at [patelj6@rpi.edu](mailto:patelj6@rpi.edu) or 518-687-7100.**

**Visit IPH on the web at**

**[http://www.lrc.rpi.edu/programs/plants/plants\\_home.html](http://www.lrc.rpi.edu/programs/plants/plants_home.html)**