

Brief Curriculum VITAE
FRANK J. LOUWS

Title: Departmental Head, Horticultural Science

Address: Box 7609, 2721 Founders Dr; 118 Kilgore Hall, NC State University, Raleigh, NC, 27695-7609

EDUCATION

Dordt College, Iowa		1980-1982
University of Guelph	Horticulture	B.Sc. (<i>with distinction</i>), 1984
University of Guelph	Plant Pathology (Env Biology)	M.Sc., 1987
Michigan State University	Plant Pathology	Ph.D., 1994
Michigan State University	Microbial Ecology	postdoc, 1993-1995

PROFESSIONAL EXPERIENCE

- August 15, 2018 – Present. Head, Department of Horticultural Science, NC State University.
- January 1, 2011 – 2018. Director, NSF Center for Integrated Pest Management; Professor of Plant Pathology, NCSU.
- January 15, 1996 – present. Assistant, Associate, Full Professor. Develop extension and research programs that emphasize IPM and sustainable agricultural principles and practices for the small fruit and vegetable agricultural sector.
- November 1993 - December 1995. PostDoctoral Fellow, Center for Microbial Ecology/MSU-DOE Plant Research Laboratory, East Lansing, MI. Design and conduct experiments and technology applications for assessing microbial diversity of plant pathogens and soil microbes.
- September 1989 - November 1993. Graduate Assistant. Dept. Plant Pathology, Michigan State University, East Lansing, MI. Was a C.S. Mott Predoctoral Fellow for Sustainable Agriculture.
- April 1987 - September 1989. Horticultural Crop Advisor, Ontario Ministry of Agriculture and Food, Bowmanville, Ontario, Canada. Provided extension production and IPM information and services for a four-county area.

TEACHING AND MENTORING EXPERIENCE

- Teach core class for incoming graduate students: HS 601 Professional Development (2022-23).
- Co-organized and co-taught 2 graduate level courses in sustainable agriculture
- Managed a graduate level course in Methods and Diagnosis (Fall 2005-2013)
- Trained 145 personnel including 18 graduate students; Committee member on 36 additional committees; mentored 54 undergraduate students and 33 postdocs or senior scientists.

PROFESSIONAL MEMBERSHIP

- The American Phytopathology Society; Canadian Phytopathology Society; American Society of Horticultural Science, International Society for Horticultural Science; International Society of Plant Pathology; Sigma Xi, The Scientific Research Society; Phi Beta Delta Honor Society for International Scholars; Phi Kappa Phi Honor Society; Gamma Sigma Delta (2002); Gamma Sigma Delta (2002); Phi Beta Delta Honor Society for International Scholars

PROFESSIONAL ACADEMIC OUTPUTS

- Published 240 research products including 96 peer reviewed journal publications, 6 peer reviewed non-journal articles, 14 research review or book chapter publications, 64 contributions to published proceedings, 60 applied research publications; + 171 abstracts.
- Published 356 extension publications including 84 extension bulletins (many with annual updates not re-counted), and 229 industry or extension newsletters and extension outcomes were featured in 43 popular press articles.
- These efforts generate research-based and mission-driven outcomes translated into extension IPM programming and horticultural production systems. ISI Citation Index = 3462 (42.2/article); ISI H-Index = 27; Google Scholar Citation Index = 6929; Google Scholar i10 Index = 83.
- Invited/featured speaker at 111 National and International meetings to present research outcomes. Presented over 417 in-state and out-of-state research-based or extension talks on disease management (IPM) in strawberry, tomato and other vegetable production systems. Organized 90 agent training programs. Diagnosed 6219 samples through our clinic.
- Panel member for multiple National Scientific Panels in IPM and Farming Systems Research (e.g. CAR/RAMP/SARE); served as Panel Manager for a USDA-ARS national programs evaluation; Team member of Land Grant Departmental Reviews; served as Panel Member for a USDA-ARS Plant Diseases and Agricultural Systems and Competitiveness and Sustainability programs

HONORS AND AWARDS (SELECTED)

- 2020 Fellow – American Phytopathology Society (APS).
- 2019 American Society of Horticultural Science Outstanding Book Award. NC Extension Gardener Handbook. (Bradley et al.).
- 2019 American Society of Horticultural Science Outstanding Book Award. 2019 Vegetable Crop Handbook for the Southeastern US. (Kemble et al.).
- ISHS Medal, 2019. International Society for Horticultural Science for Meritorious Service, June 2009. Convener of International Symposium for Horticultural Substrates, June 2019.
- 2017 American Phytopathology Society: Excellence in Extension.
- 2016 American Phytopathology Society: Excellence in Regulatory Affairs and Crop Security; Center for Integrated Pest Management Team
- 2010 North Carolina Cooperative Extension Service Foundation Grange Search for Excellence Award winner. **Frank Louws (Team Leader)**, Gina Fernandez, Garry Grabow, Katherine Jennings, Charles Safley, Zvezdana Pesic-VanEsbroeck, David Monks, Barclay Poling, Steve Toth. Methyl Bromide Research and Extension Team.
- Outstanding Service Awards. 2003&2009. NC Strawberry Growers Association

GRANTS AWARDED :

Secured as PI or coPI **\$40,330,354** including **\$25,949,744** to support work in tomato/vegetable and strawberry IPM, Plant Pathology, Horticulture, and Farming Systems Research. Secured **\$13,019,172** as PI or co-PI through the Center for Integrated Pest Management to advance local to international programs and **\$1,361,438** as Department Head in support of faculty programs. Over 97% of the funds were secured as competitive funds and the remainder in commodity-based grants and gifts.