

## Curriculum Vitae

### Peter Lawrence Conrad

Professor, Department of Biological Sciences  
SUNY Plattsburgh, Plattsburgh NY 12901-2681

Voicemail: 518 564-5271

Email: [peter.conrad@plattsburgh.edu](mailto:peter.conrad@plattsburgh.edu)

#### Formal Education:

University of Massachusetts-Amherst Plant Physiology	PhD, 1980 – Botany,
University of New Hampshire-Durham Cell Biology	MS, 1970 – Botany,
University of New Hampshire-Durham	BA, 1968 – Biology

#### Professional Development:

- Cold Spring Harbor Laboratories Summer Course Program, “Molecular Approaches in Plant Science”, 1-21 July 2005, Cold Spring Harbor, NY. Peter L. Conrad was one of 14 students selected (internationally) for participation in this course.
- Summer Institute, Science Education for New Civic Engagements and Responsibilities. Invited participant, Santa Clara University, CA. August 2005, 2003 and 2002.

#### Academic Employment:

2002-present	Professor and Chair, Department of Biological Sciences, SUNY Plattsburgh
1997-2002	Professor of Biological Sciences, SUNY Plattsburgh
1993-1997	Associate Professor, Biological Sciences, SUNY Plattsburgh
1986-1993	Assistant Professor, Biological Sciences, SUNY Plattsburgh
1977-1982	University of Wisconsin-Madison, Department of Plant Pathology and USDA-ARS, Research Associate

#### Non-Academic Employment:

1970-1972	U.S. Army, First Lieutenant
1982-1986	Frito-Lay, Inc., Irving TX, Senior Scientist, Agricultural Research

#### Professional Affiliations:

American Society of Plant Biologists  
Sigma Xi, The Scientific Research Society

#### Grant Activity and Awards:

- National Science Foundation – Instrumentation & Laboratory Improvement Program. “Improvement of Undergraduate Biology Laboratories in a Course Cluster in the Sciences for Freshmen”. NSF-ILI Grant No. DUE-9650422. \$25,173, **funded** 4/96-4/98 with matching funds provided by SUNY Plattsburgh. Co-PI/PD, Janice Marchut Conrad.
- Sabbatical Leave, Spring Semester 1995
- NSF-ILI Program, “Improvement of Undergraduate Laboratories in Plant Sciences”. NSF-ILI Grant No. DUE-8951007, \$15,206, **funded** 3/89-4/91 with matching funds provided by SUNY Plattsburgh.

### **Teaching Recognition:**

“Teaching Undergraduates to do Research.” An article appearing in the National Newsletter of the American Society of Plant Physiologists, compiled and edited by Carol Reiss-Brown University, and featuring Bio 490, a 15-credit research course taught by Janice Marchut Conrad and Peter L. Conrad. March/April 2000, Volume 27, No 2 Rockville MD.

### **OTHER PROFESSIONAL ACTIVITY:**

#### **Grant Reviewer**

- United States Department of Agriculture, Cooperative Grants Program – 2005.
- United States Department of Agriculture/BARD Program – 2003.
- SUNY Research Foundation Challenge Grant Program. 1990-1991.
- United States Department of Agriculture Competitive Grants Program - 1989 & 1990.
- National Science Foundation – Instrumentation and Laboratory Improvement Program – 1990.

#### **Conferences:**

Seventh Annual Teaching Effectiveness Conference. *Women, Men & College Teaching: Different Rules for the Same Game?* November 14 1998. SUNY Potsdam (Associated Colleges of the St. Lawrence Valley). Participation supported by the College of Arts & Sciences, Plattsburgh State University of New York.

### **CURRENT DEPARTMENTAL, COLLEGE OR UNIVERSITY SERVICE:**

- Department Chair, Fall 2002 – present
- Arts and Sciences Curriculum and Programs Committee, 2005.
- Institutional Radiation Safety Officer, 1998-present.

### **COMMUNITY SERVICE:**

- Member – Plattsburgh College Foundation, Inc. 2001-present
- Member – Board of Directors, Adirondack Humane Society, 2001- present

### **PRESENTATIONS - SUNY PLATTSBURGH - \*Undergraduate students**

#### **2004-2008**

- Blanco<sup>\*</sup>, MC., Chun<sup>\*</sup>, W., Thirunavukarasu<sup>\*</sup>, S., Conrad, PL and Marchut Conrad, J. **2008**. Auxin in the nitric oxide signaling pathway induces cell expansion in *Chlamydomonas reinhardtii*. Northeast Section American Society of Plant Biologists, 72th Annual Meeting, 18-19 April, University of Connecticut, Storrs CT.
- Layhee<sup>+</sup>, AW., Orr<sup>\*</sup>, RJ., Conrad, PL. and Marchut Conrad, J. **2008**. *Chlamydomonas reinhardtii* FLP transcripts: red light induced expression
- Lebeau<sup>\*</sup>, M., Paul<sup>\*</sup>, G., Tesheira<sup>\*</sup>, N., Conrad, PL and Marchut Conrad, J. **2008**. *Chlamydomonas reinhardtii* : the role of membrane bound hydrogen pumps in cadmium induced cell expansion. Northeast Section American Society of Plant Biologists, 72th Annual Meeting, 18-19 April, University of Connecticut, Storrs CT.
- Meliski<sup>\*</sup>, E., Jones<sup>\*</sup>, I., Riley<sup>\*</sup>, M., Blondo<sup>\*</sup>, R., Marchut Conrad, J. and Conrad, PL. **2007**. Phytoremediation: A closer look at regulation of cadmium tolerance in *Chlamydomonas reinhardtii*. Northeast Regional Undergraduate and Graduate Student Sigma Xi Poster Conference, Cornell University, Ithaca NY.

- Atkins\*, C., Tran\*, M., Gomez\*, I., Francois\*, R., Marchut Conrad, J. and Conrad, PL. **2007**. Flagella length and cell size as a function of cell cycle progression in *Chlamydomonas reinhardtii*. Northeast Regional Undergraduate and Graduate Student Sigma Xi Poster Conference, Cornell University, Ithaca NY.
- Biel\*, M., Jobe\*, F., Lachapelle\*, A., Tan\*, W., Marchut Conrad, J. and Conrad, PL. **2007**. Programmed cell death or necrosis *Chlamydomonas* response to respiratory stress. Northeast Regional Undergraduate and Graduate Student Sigma Xi Poster Conference, Cornell University, Ithaca NY.
- Boivin\*, ME., Higley\*. B., Favro\*, AN., Flint\*, NA., Conrad, PL. and Marchut Conrad, J. **2006**. *Chlamydomonas* Blue light shrinking requires V-H<sup>+</sup>-ATPase Function. . Northeast Section American Society of Plant Biologists, 70th Annual Meeting, 8-9 April, Smith College, Northampton MA.
- Polumbo\*, CM., Seward\*, NH., Sladewski\*, TE., Thomas\*, SP., Conrad, PL. and Marchut Conrad, J. **2006**. Melatonin (an indole) and auxin effects on *Chlamydomonas* cell expansion. . Northeast Section American Society of Plant Biologists, 70th Annual Meeting, 8-9 April, Smith College, Northampton MA.
- Rooney\*, WT., Quarles\*, L., Elicier\*, R. Conrad, PL and Marchut Conrad, J.<sup>1</sup> **2005**. Cell Volume Change of *Chlamydomonas* is Mediated by Red and Blue Light: Involvement of Aquaporin and cAMP in Osmoregulation. American Society of Plant Biologists, Northeast Section 69<sup>th</sup> Annual Meeting, 3-4 June, Binghamton University, Binghamton NY.
- Ritchie\*, JA., Conrad, PL. and Marchut Conrad, J.<sup>1</sup> **2005**. Far-red Light Mediates the Greening of *Chlamydomonas* Yellow-in-the-Dark Mutants as a Function of Time in the Dark. American Society of Plant Biologists, Northeast Section 69<sup>th</sup> Annual Meeting, 3-4 June, Binghamton University, Binghamton NY.
- Ritchie\*, JA., Conrad, PL & Marchut Conrad, J. 2004. Light Intensity and 730nm Light Affect Greening of Two *Chlamydomonas reinhardtii* Yellow-in-the-Dark Mutants. University of Massachusetts-Amherst 2004 Annual Symposium in Plant Biology. Smith College, 2 October 2004 (b).
- Hart\*, L., Vasile\*, M., urdie\*, E., Salamy\*, J., Conrad, PL. & Marchut Conrad, J. 2004. Cell Volume Change in *Chlamydomonas reinhardtii* Requires Light, Calcium and Sufficient Metabolic Energy. 68<sup>th</sup> Annual Meeting, Northeast Section American Society of Plant Biologists. 4-5 June, Brown University, Providence RI.
- Kimura\*, H., Johnson\*, V., Conrad, PL & Marchut Conrad, J. 2004. *Chlamydomonas reinhardtii* CC735 and STC Differ in Ability to Use Nitrate in the Light; However, Nitric Oxide is Central to Chlorophyll Synthesis in the Dark. 68<sup>th</sup> Annual Meeting, Northeast Section American Society of Plant Biologists. 4-5 June, Brown University, Providence RI.
- Ritchie\*, JA., Gillett\*, O., Conrad, PL. & Marchut Conrad, J. 2004. Light Intensity and 735nm Light Affect Greening of Two *Chlamydomonas reinhardtii* Yellow-in-the-Dark Mutants. 68<sup>th</sup> Annual Meeting, Northeast Section American Society of Plant Biologists. 4-5 June, Brown University, Providence RI. (a)
- Blackmoore\*, M., Conrad, PL. & Marchut Conrad, J. 2004. An Fe-deficiency Response of *Chlamydomonas* Insertional Mutant Involves Plasma Membrane H<sup>+</sup> - ATPase and Light. . 68<sup>th</sup> Annual Meeting, Northeast Section American Society of Plant Biologists. 4-5 June, Brown University, Providence RI.

### **INVITED PRESENTATIONS:**

Blackmoore\*, M., Marchut, Conrad, J., Delbel, N. and Conrad, PL (presenter). 2005. Osmoregulation in *Chlamydomonas reinhardtii* is Wavelength Dependent and Does Not Rely on Photosynthetic Electron Flow. Cold Spring Harbor Laboratory.

Marchut Conrad, J. (presenter) & PL Conrad. 2001. "The Use of Small Groups and Research Projects to Teach Science." 5<sup>th</sup> Annual Urban Mission Conference. "Innovative Methods of Teaching in Higher Education" 26 October. New Jersey City University, Jersey City NJ.

Reese\*, BE., (presenter) J. Marchut Conrad & PL Conrad. 2000. The Effect of DCMU (Diuron) on the Mitochondria of *Chlamydomonas reinhardtii*. Council on Undergraduate Research (CUR) 4<sup>th</sup> Annual Posters on the Hill, 6 April, Washington DC.

Conrad, PL. (presenter) & J. Marchut Conrad 1990. The Use of Small Groups and Research Projects in Plant Biology Course Laboratories. American Institute of Biological Sciences, Annual Meeting. 4-9 August. Richmond VA.

### **REFEREED PUBLICATIONS:**

•Marchut Conrad, J. & P.L. Conrad 1993. Small Groups and Research Projects in Science. *College Teaching*. 41/2: 43-46.

•Conrad, PL. 1991. Potato Virus S Free Plants Obtained Using Antiviral Compounds and Nodal Segment Culture of Potato. *American Potato Journal*. 68: 507-513.

•Pick, U., P.L. Conrad, J.M. Conrad, R.D. Durbin & B.R. Selman 1982. Synergistic Activation of a Mg-specific ATPase Activity in Chloroplast Coupling Factor by Octylglucoside and Tentoxin. *Biochimica et Biophysica Acta* 682: 55-58.

### **ARTICLES IN BOOKS:**

•Marchut Conrad, J and PL Conrad. 2003. Using Small Groups and Research Projects to Teach Science. *In*. Clyde Coreil, ed. Multiple Intelligences, Howard Gardner and New Methods in College Teaching. P. 35-42. New Jersey City University. Jersey City NJ.

### **INVITED BOOK REVIEW:**

Marchut Conrad, J. and P.L. Conrad 1993. *Revitalizing Undergraduate Science. Why Some Things Work and Most Don't* by Sheila Tobias. *College Teaching*. 41/2:76