

Curriculum Vitae

Urszula Wydrzycka Bielejewska

Date of birth: 10 October 1947, Poland
Nationality: Costa Rican
Universidad Nacional
Escuela de Ciencias Biologicas
Coleccion de Cultivos de Microalgas
Laboratorio de Botanica
Heredia- 3000
Office telephone: 277-33-31
Specialization: Biology: Algal Ecology: Phycology

Professional degrees and other studies

Primary and secondary courses in Poland.
Entered the Faculty of Biology and Earth Sciences at the University of Warsaw, 1966
Master's of Biology in the area of Botany, University of Warsaw, 1971.

Student of Sociology in Department of Man, University of Costa Rica, 1973.

Participation in seminars, colloquia, and workshops

Seminar of Biodiversity: "Science, Politics, and Ethics" organized for the Faculty of Exact and Natural Science and the Faculty of Philosophy and Letters, Heredia, Costa Rica, 1993.

Seminar-Workshop on Quality of the Apprenticeships for Basic Courses of Sciences and Mathematics, 23-24 July 1997, Santo Domingo, Heredia.

University Congress on Biodiversity, 31 May-4 June 1997, University of Costa Rica, San José.

Congress of Investigation: Costa Rica . 14-16 March 2000, National Counsel of Rectories, San José, Costa Rica.

Language Skills

Polish and Spanish – completely fluent
English- read very well, write and speak well
French and Portuguese – read moderate
Russian – read and speak very well

Professional Experience

1971-73 Scientific assistant for the Department of Forest Ecology for the Institute of Forest Investigation, Warsaw. Collaborated with other research projects. 1971-1973

1. Influence of industrial contamination on vegetation of the industrial region of Silesia.
2. Detailed map of the algae of the National Park of Santa Cruz.
3. Influence of artificial irrigation of the forest community.

Universidad Nacional (Heredia, Costa Rica) 1974- present.

1978 promoted to Professor Instructor II

1997 promoted to Professor

Teaching courses of Botany for Veterinary Medicine, Botany for Department of Environmental Science, Botany for Agricultural Science, Botany I and Botany II for Biology and General Ecology and Hydrology (course required for License for Managing Natural Resources).

At present, I teach courses in General Botany for Baccalaureate in Tropical Biology and Marine Biology of the ECB (UNA) and Algología for required courses, proposed required courses and elective courses in Ecology of Terrestrial Algae and collaborate on a course in Agroecology (Required for Licence in Management of Natural Resources).

Formal participation in the following research:

The algae of the soil of coffee plantations.

Culturing *Cichlasoma dovii*, biofouling and limnology of the culture (Embalse Arenal). Duration 1986-88.

Studied limnology of the Caldera Bosque Alegre. Duration: 1991-95.

Write text for General Botany. 1995-96.

Taxonomy of the freshwater diatoms of the country in Germany, May-June 1998, Hannover-Frankfurt, fellowship from DAAD.

Results of the efforts and identification of the microalga in different environments (freshwater habitats of the country) and the isolation of 221 species of algae which are maintained in culture in the Colección de Cultivos de Microalgas de la ECB, which I direct.

Reviewed Publications

1. Matuszkiewicz, W. & U. Wydrzycka, 1972. The number of species as a function of surface area and the problem of the representative area of a Phytocoenosis. *Phytocoenosis* 1(2): 95-120.
2., 1983. Algas edáficas del tropico I. Variaciones mensuales de la densidad de algas en un Typic Dystrandep de un cafetal en Costa Rica. *Rev. Biol. Trop.*, (31) 2 (Costa Rica): 217-225.
3., 1990. Observations of some green algae (Chlorophyceae: Chlorococcales, Chaetophorales, Chlorosarcinales and Siphonales from Costa Rica, in culture. In: *Biology and Taxonomy of green algae. International Symposium. Bratislava. Czechoslovakia: 72.*
4., 1996. Algas de la Caldera Bosque Alegre y eutrofización. En: *Utilización y manejo sostenible de los recursos hídricos.* Editor: Jenny Reynolds; Ed.Fundación UNA

5., 1996. Las especies de *Trachelomonas* (Algas:Euglenophyta) de las lagunas de la Caldera Bosque Alegre (Costa Rica). Rev. Biol. Trop. 44(2) Costa Rica: 477-484.
6. Ramirez, E.,L. Camacho &, 1996. Hule: una laguna tropical. En: Utilización y manejo sostenible de los recursos hídricos. Editor: Jenny Reynolds; Editorial Fundación UNA (Costa Rica): p. 243.
7. J. Segura, M. Martínez, E. Fernández,, E. Malavassi & J. Valdés, 1998. Geothermal and volcanic effects on river water quality of Poás Volcano watersheds, Costa Rica. In: American geophysical Union (AGU) 1998 Fall Meeting, Dec. 6-10, 1998, San Francisco, California Suppl. Eos, Transactions, AGU Vol. 79 (45): 322
8. J. Segura,....., María Martínez, Erick Fernández, Eduardo Malavassi, Wendy Sáenz y Juan Valdéz, 2000. Características químicas y biológicas de la cuenca del Río Agrío, Volcán Poás, Costa Rica. I Congreso de Investigación: Costa Rica en 2000. Los retos y propuestas de la investigación en el III milenio, CONARE (Consejo Nacional de Rectores). 14-16 de Marzo, San José, Memoria, Tomo I.EUNED, San José, Costa Rica: 81
9., 2000. Colección de Cultivos de Microalgas. Memoria del "I Congreso Interuniversitario de Biodiversidad. CONARE (OPES- Oficina de Planificación de la Educación Superior) San José, 31 de mayo-4 de junio, 1999: 81
10. and H. Lange-Bertalot, 2001. Las diatomeas (Bacillariophyceae) acidófilas del río Agrío y los sitios vinculados con su cuenca, volcan Poás, Costa Rica. Brenesia 55/56: 1-67.

Internal Publications:

1. Wydrzycka, U. & R. Viquez, 1979. Guías de Laboratorio de Botánica. Tomo I y II. Mimeógrafo, UNA Escuela de Cienc. Biol., 134 pp.
2. D. I. Rivera, U. Wydrzycka B., L. Camacho, L. Castro, C. Hidalgo, 1989. Plan de estudios carreras: Bachillerato en Biología tropical y Licenciatura en Biología Tropical con énfasis en Manejo de Recursos Naturales, ECB, UNA, 105 pp.
3. J. Günther *et al.* (U. Wydrzycka B.). 1989. Plan de Estudios Carreras de Bahillerato en Biología Marina, Licenciatura en Biología Marina con énfasis en Manejo Pesquero y Acuicultura, ECB, UNA, 156 pp.
4., 1995-1996. Temas de Teoría (Questionarios y ejercicios). Guías de Laboratorio. Algología para Biólogos.(Uso interno), ECB, UNA. 169 pp.
5., I. Inostroza S., 1996. Prácticas de Laboratorio (Guías).Botánica General para Ciencias Agrarias (uso interno). UNA. 69 pp.
6. & R. Viquez, I. Inostroza, 1996-1997. Prácticas de Laboratorio (Guías). Botánica General. ECB, UNA. 53 pp.

Unpublished Studies and Publications in Preparation

1. Study of "biofouling" in the Embalse Arenal. Information of investigation, 1989: 7 pp. 56 figures.
2. Distribution of chlorophyll and proteins of the lagoons of the Caldera de Bosque Alegre (ECB, UNA): 11 pp., figures and plates.
3. Lists and descriptions of the algae of the Laguna Bosque Alegre. 39 pp., plates.
4. Lists and descriptions of the algae of the Laguna Congo. 39 pp. and plates.
5. Developmental morphology of strains of *Pseudendozonium* Wille from Costa Rica (Ulotrichales, Ulvophyceae, Chlorophyta). 14 pp., 11 plates.
6. Species of *Anabaena* and their monoalgal cultures of the Colección de Cultivos de Microalgas (ECB, UNA): 18 pp.
7. Lists and descriptions of the algae of Caño Negro. 27 pp., 4 plates.
8. Lists and descriptions of the algae of the Laguna Bonilla, 15 pp.
9. Lists and descriptions of the algae of the phytoplankton and periphyton of the Laguna Hule, 61 pp., plates.
- 10..... & J. Komárek, 1997. Taxonomic revision of some Oscillatoriales species (Cyanophyceae) from Costa Rica in culture. 24 pp., 8 plates (publication in preparation).
11.,with collaboration with Ivette Inostroza S. 1997. Botánica General. 316 pp., 80 plates. (in press).