

Dr. CHRISTOS LYKAS

CURRICULUM VITAE

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PERSONAL DATA

Name: Christos
Surname: Lykas
Date of birth: 25/6/1965
Nationality: Greek
Work address: University of Thessaly, School of Agricultural Sciences,
Dept. of Agriculture Crop Production and Rural Environment,
Fytokou Str., GR-38446, New Ionia, Magnisia, Greece

Tel: +30-2421-093204
e-mail: chlikas@uth.gr

Objective: Lecturer, Floriculture

Education

Ph.D., Agricultural Sciences (2004)
School of Agriculture, Crop and Animal Production, University of Thessaly, Greece.

B.A., Agronomist (1989)
School of Agriculture, Aristotle University of Thessaloniki, Greece.

Training

- 1997 Institute National de la Recherche Agronomique (URIH-INRA) in Sophia Antipolis in France on
- Soilless culture methods for ornamental plants grown in greenhouse
 - Computer control of greenhouse climate
 - Computer control of the fertigation in hydroponic cultures
 - Optical and thermal properties of plastic films used as greenhouse cover materials
- 2004 Plant Research International The Netherlands (PRI) in Wageningen, “HydrionLine 3 Project” on
- Optimization of the management of protected cultivation
 - Use of sensors and remote scanning devices on crop management
- 2008 Wageningen University, The Netherlands on
- Greenhouse Technology

Teaching Experience

Temporary Assistant Professor, Dept. of Agricultural Production of the Technological Education Institute of Larissa, Greece.

Lecturer, University of Thessaly School of Agricultural Sciences, Dept. of Agriculture Crop Production and Rural Environment

Research Experience

Participation in research projects related to the control of hydroponic cultures, funded by the Research Committee of the University of Thessaly, the Greek General Secretariat.

- «CLOsed SYStem for water and nutrient management in horticulture». Research program founded by European Community.
- «HydrionLine 3 Project». Research program founded by Dutch Agriculture Department.
- «Investigation of the greenhouse natural ventilation». Research program founded by the General Secretariat for Research and Technology.
- «New Systems for Agricultural Production in the Mediterranean Regions with Emphasis to the Sustainable Production and the Use of New Technologies». Research program founded by the General Secretariat for Research and Technology.
- «Development and optimization of a new friendly to the environment system used both for development and heating of a soilless culture». Research program founded by the Research Committee of University of Thessaly.
- «Development and evaluation a computer aid tool for water management of protected cultivations in Mediterranean regions» Research program founded by the General Secretariat for Research and Technology.

Publications

Publications in peer-review international journals

- 1) **Ch. Lykas**, P.Giaglaras, C. Kittas 2001. Availability of iron in hydroponic nutrient solution for rose crop. *Journal of Horticultural Science & Biotechnology*. **76** (3) 350-352.
- 2) **Ch. Lykas**, V. Exarchou, K. Gourgoulisanis, P. Giaglaras, Th. Gemptos, K. Kittas, P.A. Molyvdas 2001. Noxious gases in greenhouses. *Ann. Agric. Environ. Med.* **8**, 99-101.
- 3) Katsoulas, N., Kittas, C., Dimokas, G., **Lykas, Ch.**, 2006. Effect of Irrigation Frequency on Rose Flower Production and Quality. *Biosystems Engineering* 93(2),237-244.
- 4) **Lykas, Ch.**, Katsoulas, N., Giaglaras, P., Kittas, C., 2006. Electrical Conductivity and pH prediction in a Recirculated Nutrient Solution of a Greenhouse Soilless Rose Crop. *Journal of Plant Nutrition*, 29:1585-1599.
- 5) **Ch. Lykas**, C. Kittas, N. Katsoulas, M. Papafotiou 2008. Gardenia jasminoides Height Control Using a Photoselective Polyethylene Film. *HortScience* 43(7), 2027–2033.

Publications in International and National Conferences with reviewers

- 1) Giaglaras, **Ch. Lykas**, C. Kittas, 1998. “Dynamic Simulation of a Nutrient Solution’s Composition in a Closed Hydroponics System.” Proc. of the 1st IFAC-CAEA Workshop, 227- 234, 15-17 Juin 1998, Athens, Greece.
- 2) **Ch. Lykas**, P. Giaglaras, C. Kittas, 2001. Nutrient solution management in recirculating soilless culture of rose in mild winter climates. *Acta Horticulturae* 559, Volume II, 543-548 (Proceedings of the International

- Symposium on Protected Cultivation in Mild Winter Climates: Current Trends for Sustainable Technologies Cartagena - Almeria, Spain, 7-11 March 2000).
- 3) **Lykas, C.**, Katsoulas, N., Kittas, C., 2004. EC and pH prediction in a recirculated nutrient solution of a greenhouse soilless rose crop. Measurements and modeling. E-Proceedings of the: International Symposium of the CIGR in: "New trends in Farm buildings". May 2-6 2004, Evora, Portugal.
 - 4) Kittas, C., Dimokas, G., **Lykas, C.**, Katsoulas, N., 2004. Effect of two irrigation frequencies on rose flower production and quality. International Symposium on Sustainable Greenhouse Systems, GreenSys. September 12-16 2004, Leuven, Belgium.
 - 5) L.F.M. Marcelis, E. Brajeul, A. Elings, A. Garate, E. Heuvelink, **C. Lykas**, P.H.B. de Visser. 2004. Modelling plant – nutrient relationships in greenhouse crops. International Symposium on Sustainable Greenhouse Systems Greensys 2004, September 12-16, 2004, Leuven, Belgium.
 - 6) **Ch. Lykas**, D. Petsani, M. Papafotiou, C. Kittas, 2005. Effect of a Red to Far Red Light Filtering Plastic Film on Growth of Gardenia (*Gardenia jasminoides*). International Symposium on Artificial Lighting in Horticulture "Recent Advances in Horticultural Lighting", June 21-24, Lillehammer, Norway.
 - 7) M. Tchamitchian, C. Kittas, Th. Bartzanas, **Ch. Lykas**. 2005. Daily Temperature Optimisation in Greenhouse by Reinforcement Learning. 16 th IFAC World Congress , 4- 8 July , Prague.
 - 8) **Ch. Lykas**, N. Katsoulas and C. Kittas, 2006. Calcium, Magnesium and Potassium Concentrations Prediction in a Recirculated Nutrient Solution of a Greenhouse Soilless Rose Crop. Acta Horticulturae 718, 491-498. Proceedings of the International Symposium on Models in Protected Cultivation. October 29 - November 2 2006, Wageningen, The Netherlands.
 - 9) **Ch. Lykas**, Zambeka, A. and C. Kittas. 2007. Water and Fertilizers Use Efficiency in Grafted and non Grafted Tomato Plans on Soilless Culture. Acta Horticulturae 801, 151-156. Proceedings of the International Symposium on High Technology For Greenhouse System Management. October 4-6, 2007, Naples Italy.
 - 10) K. Kalovrektis, **Ch. Lykas**, E. Fountas 2009. Identification of high salinity stress in ornamental plant by biosignal process.. 4th Balkan Conference in Informatics (BCI 09). September 17-19, Thessaloniki Greece
 - 11) K. Kalovrektis, Th. Ganetsos, N. Y. A. Shammas, I. Taylor, J. Andonopoulos, **Ch. Lykas** 2010 An Integrated Development Hardware Design for an Advanced Wireless Ag/AgCl Sensor to Acquiring Biosignals Form Ornamental Plants. Proccidings of 4th WSEAS International Conference on Circuits, Systems, Signal and Telecommunications (CISST '10), pp. 90-94. January 27-29, Harvard University, Cambridge, USA.
 - 12) **Ch. Lykas**, G. Dimokas and C. Kittas 2009. Alteration of NO₃⁻, PO₄³⁻ and SO₄²⁻ Concentration on Rose Plants in Response to Greenhouse Climate Parameters and their Concentration in the Nutrient Solution . International Symposium on High Tecnology for Greenhouse Systems. June 14-19, Québec City, Canada

- 13) C. Kittas, N. Katsoulas, T. Bartzanas, P. Giaglaras, M. Karamanis, **Ch. Lykas**. Energetic evaluation of a greenhouse thermal screen. Proceedings of the 2nd National Conference of Agriculture Engineers, Volos, 2000, 221-228, (in Greek).
- 14) G. Dimokas, **Ch. Lykas**, P. Giaglaras, C.Kittas. 2003. Evaluation of the morphological characteristics of rose plants as a decision criterion for bending. Proceedings of 20th GSHS, Cyprus 29 October-1 November, pp 298-301, (in Greek).
- 15) A. Bibi, **Ch. Lykas**, G. Nanos, C.Kittas. 2003. Comparison of the production of rose crops developed in open and closed hydroponic systems. Proceedings of 3^d National Conference of Agriculture Engineers, Thessaloniki 29-31 May 2003, pp 188-195, (in Greek)..
- 16) D. Petsani, **Ch. Lykas**, C.Kittas. 2003. The influence of a color photo selective greenhouse cover material on the height of gardenia cuttings. Proceedings of 21 GSHS, Ioannina 8-10 October, pp 477-480, (in Greek).
- 17) **Ch. Lykas**, N Katsoulas, C. Kittas. 2003. EC and pH prediction in a recirculated nutrient solution of a greenhouse soilless rose crop. Proceedings of 21 GSHS, Ioannina 8-10 October, pp 371-374, (in Greek).
- 18) S. Kavouras, **Ch. Lykas**, C. Kittas. 2003 The influence of short elimination of Ca⁺⁺, Mg⁺⁺ and K⁺ on growth and refecation of rose plants. Proceedings of 21 GSHS, Ioannina 8-10 October, pp 477-480, (in Greek).
- 19) **Ch. Lykas**, A. Koutsoflini, C. Kittas. 2005. Influence of the greenhouse climate on NO³⁻ and PO⁴⁻ concentration in rose plants grown in hydroponic system. 22 GSHS, Patra 8-10 October, pp 477-480, (in Greek).
- 20) G. Dimokas, **Ch. Lykas**, N. Katsoulas, C.Kittas. 2005. Effect of irrigation iredency on soilless rose flower production and quality. 22 GSHS, Patra 8-10 October, pp 477-480, (in Greek).
- 21) **Ch. Lykas**, N. Katsoulas and C. Kittas, 2006. Calcium, Magnesium and Potassium Concentrations Prediction in a Recirculated Nutrient Solution of a Greenhouse Soilless Rose Crop. International Symposium on Models in Protected Cultivation. October 29 - November 2 2006, Wageningen, The Netherlands.

Publications in Greek Journals

- 1) N. Katsoulas, **Ch. Lykas**, , P. Giaglaras, C.Kittas. 2000. Management of the nutrient solution of a rose crop grown in soilless culture in Magnesia region. Agricultural and Animal Production 6: 42-50.

Additional Information

Member of the Hellenic Union of Agricultural Engineers (HelAgEng).

Member of the European Union of Agricultural Engineers (EurAgEng).

Reviewer of Scientia Horticulturae.