

Curriculum vita

Name : MAHMOUD A. M. **MEDANY**
Address : 5th area, Building #10, Apt. 15,
Misr Taamir Bldgs, Masaken
Sheraton Heliopolis, 11361
Cairo, Egypt
Date of birth : October 3, 1958
Place of birth : Al-Wady Al-Gadid
Phone : Home +(202) 2666634
Work+(202) 3367274 / 3368059
Fax : Work + (202) 749 0053 / 336 8059
E-Mail : RUMEDANY@RUSYS.EG.NET
RUMEDANY@YAHOO.COM



EDUCATION

Year	Degree	University	Major	Dissertation Topic
1997	Doctor of Philosophy	Ain Shams University, Egypt	Vegetable Crops	Studies on cucumber growth models
1991	Master of Science	Ain Shams University, Egypt	Vegetable Crops	Studies on heat requirements of cucumber and sweet pepper grown under protected cultivation
1981	Bachelor of Science	Ain Shams University, Egypt	Horticulture	

EMPLOYMENT

Job	Employer	Dates
Deputy Director	The Central Lab. for Agric. Climate	2005-present
Head of Agro-climate Applications Dept.	The Central Lab. for Agric. Climate	1997-2006
Director of Minister's Tech. Office,	Ministry of State for Env. Affairs	Oct. 2002-March 2004
Assistant Researcher	Central Lab. for Agr. Expert Systems, A.R.C	1994-1995

Assistant Researcher	Vegetable Res.Dep.	January, 1992
Research Assistant	Vegetable Res.Dep.	June, 1983

Environment Activities:

1. Main author, Greenhouse Gases Inventory from Agriculture, 1997
2. Initial National Communication, 1999
3. Technical consultant for Climate Change Unit – Egyptian Environmental Affairs Agency (EEAA) – Ministry of State for Environmental Affairs (MSEA) 2001-2002
4. Technical Director of Bureau for State Minister of Environmental Affairs – EEAA – MSEA – 2002-2004
5. Supervision of 8 Ph.D. and 14 M.Sc. thesis related to Climate Change and its impacts on Agriculture
6. Attended more than 25 international events related to Environment
7. Editor for the Ozone newsletter, EEAA, MSEA – 2001-2003
8. Contact person for the Working Group II of Intergovernmental Panel on Climate Change (IPCC) which assesses the vulnerability of socio-economic and natural systems to climate change, negative and positive consequences of climate change, and options for adapting to it
9. Project manager of the project "Assessment of Impact and Vulnerability to Climate Change in North Africa, AIACC-AF90, UNEP, 2002-2005
10. Lead Author, Chapter 9; Fourth Assessment Report for climate change, 2005.
11. Expert Reviewer for GHG inventory, 2007.

Training Programs and Fellowships :

- 1- Post Graduate Diploma on Horticulture, from Mediterranean Agronomic Institute of Chania (MAIX), International Center for Advanced Mediterranean Agronomic Studies during the Academic year of 1986/87, Chania, Greece.
- 2- A special 6-month training program in " Modern greenhouse Operations and Research" from March, 19 to August 26, 1990, Ohio State University, USA.
- 3- **Training program on organic fertilization and organic wastes held in brussels from September 9 to October 10, 1991, Brussels, Belgium.**

- 4- A two-year scholarship through NARP for the PH.D. experiments at Ohio Agricultural Research and Development Center, the Ohio State University, Wooster, from Jan. 1995 to December 1996.
- 5- The use of **GIS for modeling** crop production, Faculty of Agricultural Sciences and Forestry, University of Chile, Chile, Dec. 23, 1997- Jan. 17, 1998.
- 6- **Optimizing Management, Precision farming:** A system approach, Florida University, USA, March 9-14, 1998.
- 7- Automatic **Weather Stations** Installation, Operating and Maintenance training course, Campbell Scientific Inc., Logan, UT., USA, Nov. 9-20, 1998.

Selected Scientific Visits :

1. Scientific visit about managing **agriculture Wastes (rice straw burning) in California, 2004, USA.**

Selected International Meetings :

- 1- **Sustainability of irrigation in agriculture,** Cairo, Egypt, September 15-22, 1996.
- 2- The Fifth National Conference On **Environmental Studies** And Research " Climate Change And Its Impacts On The Environment In Egypt ", 10-12 December, 1996, Cairo, Egypt
- 3- **Climate Change and Agriculture Sector** Workshop, 10-11 March, 1997, Cairo, Egypt.
- 4- **Greenhouse gases Mitigation Analysis** Workshop, July 1997, Cairo, Egypt.
- 5- **Mitigation options to greenhouse gases from Agricultural Sector** Workshop, November 1997, Cairo, Egypt.
- 6- **Groundwater Protection workshop,** UNESCO/UNDP SPPD Project, Cairo, Egypt, Jan. 30, 2000.
- 7- **Climate change and its impact on agriculture sector** in Mediterranean workshop, 2000 , Spain.

- 8- International meeting of **Desert development middle** East Mediterranean countries ,2001, Cyprus.
- 9- International conference of **Water**, International Institute of Water research, 2001 ,Ceylon.
- 10- **Climate change** workshop, 2002, Germany.
- 11- **Ozone Protocol** annual meeting workshop, 2002 Montreal, Canada.
- 12- International conference of for coloration signals of **sustainable forest management**, 2002, Guatemala.
- 13- 18th session of the Subsidiary Body for Science and Technology Adaptation (SBSTA) and Subsidiary Body for Implementation (SBI) for **Climate Change**, 2003, Bonn, Germany.
- 14-21st scientific meeting of IPCC working groups, 2003, Vienna, Austria.
- 15- GHG emission, Austria,
- 16- Kenya

Scientific projects:

1. Scientific member in CALAR II, (1989 - 1995)
2. Irrigation Information specialist, Agricultural Technology Utilization and Transfer, 1997-1999.
3. Integrated Crop Management Information system, 1997-2001.
4. The use of Agroclimatic data in agriculture, ATUT (1997).
5. The Use of Expert System for Minimizing Damage Caused by Unfavorable Weather Condition (1996 - 1997).
6. Intensive agriculture under marginal resources in southern turkey and Northern Egypt, EEC, 1997-2001.
7. Assessment of the impact of climate change in North Africa, 2002-2005.
8. Impact of climate change on maize production, Scientific Research Academy, 2004-2007.

Supervision :

Graduated Ph.D. Students:

- 1- M.K.K.Hassanien: "Studies on Genitic Coefficient for Dission Support Models in Faba Bean (*Vicia Faba*), Azhar Univ."
- 2- Dalia Khalaf, "**Emergy analysis for organic** potato and sweet pepper in Egypt, Fac. of Agric., Ain Shams Univ., 2004

Current PH.D. Students

- 1- M. Abou-Elsouaud: "Cucumber Production Using **Biological** and Soiless Cultures, Ain Shams Univ."
- 2- Sayed .H.A. El-Sayed: " Studies on Producing Strawberries **organically**, Ain-Shams Univ."
- 3- M. A. Fahiem: "Efect of **climate change** on the epidemiology of late blight ", Fac. of Agric., Cairo Univ..
- 4- S. M. Abou El-Maaty: " Effect of **climate change** on wheat rust" Fac. of Agric., Al-Azhar Univ."
- 5- S. M.M.Saleh: " **The impact of climate change** on potato production, Ain Shams Univ."
- 6- S.M.El-Taher: "**Climate change impact on water Requirements in Egypt**, Ain-Shams Univ."

Graduated M.Sc. Students

- 1- M. A. Fahiem: " **Forecasting of Potato Late Blight** under Egyptian Environmental Conditions, Ain Shams Univ."
- 2- S. M. Abou El-Maaty : " **Forecasting of Fire Blight** of Pear under Egyptian Environmental Conditions, Ain Shams Univ."
- 3- S. S. Masaoud: " **Epidemiology of some Aphids** – Transmitted Potin Relation to Disease Forecasting, Ain Shams Univ."
- 4- S. M.M.Saleh: " Effect of Polyethylene Color on the Growth and Production of Sweet Pepper and Cucumber Under Greenhouses, Ain Shams Univ."
- 5- M. Abd Rabou: " Studies on the Control of Single Plastic House Climate for Cucumber, Ain Shams Univ."
- 6- K.M.Refaee: "Studies on **Soil Moisture Control in Root Distribution Area to Reduce Water Loss to the Surrounding Area**, Environmental Studies and Research Institute-Ain Shams Univ."
- 7- S.M.El-Taher: "**Estimation of Irrigation and Energy Requirements** for Growen Potato Crop under Sandy Soil Conditions, Ain-Shams Univ."
- 8- M.S. Ali: "Studies on Green Bean Export Productions by Using Hydroponics Techniques under Protected Cultivation, Ain-Shams Univ."
- 9- Heba Hasanien, Geographic Information system for **the sea level rise as a result of Clmate Change**, Fac. Of Agric., Azhar Univ.

- 10- Mohamed Fady, "**Organic cucumber in relation to irrigation** and fertilization under greenhouses" Environmental Studies Res. Institute, Ain Shams Univ.

Current M.Sc. Students

- 1- Doaa Abo-Bakr: "Studies on the Effect of **Root Media Temperature on Seed Germination** and Seedling Growth of Some Vegetable Crops"
- 2- Mona Maize, "Studies on **heat unit requirements** for some plants grown in Egypt, Fac. of Science, Cairo Univ.
- 3- Mohey Kadah: "GHG emissions from Egyptian livestock".

Selected publications:

1. *M.A.Medany, M.H.Mahmoud, S.A.Gaafer and A.F.Abou-Hadid, (1990). Effect Of Cultivation In Heated And Non Heated Plastic Houses On Quality And Shelf Life Of Sweet Pepper Fruit pt. J. Hort. 17, No 1, pp. 57-67 .*
2. *A.F.Abou-Hadid; M.A Medany and S. El-Beltagy, (1992). The Effect Of The Difference Between Day And Night Temperature (Dif) On Transpiration Rate Of Some Vegetable Crops Grown In Rockwool Acta Horticulturae 323.*
3. *U.A.El-Behairy, M..A.Medany , L.S.S.Ben.jamien, M.Abou El-Saud and A.F.Abou-Hadid, (2000). Collection of Rain Water from Plastic Houses and its Utilization for Tomato Production in North Egypt. J. Hort. 27, No 3, pp. 349-362.*
4. *N.Y. Abd El-Ghafar, Sh.M. Abo El-Maaty, M.A. Medany, I. S. Elew and A.F. Abou-Hadid , (2000). Epidemiology of Pear Fire Blight in Egypt Egypt. J. Hort. 28, No 2, pp. 217-239 .*
5. *M.M. Wadid, MA. Medany, U.A. El-Behairy, A.A. Farag and A.F. Abou- Hadid, (2000). Effect of Improved Natural Ventilation of Plastic House on Cucumber in Egypt Egypt. J. Hort. 27, No 4, pp. 569-578 .*
6. *M.A. Medany, M.M.Wadid and A.F.Abou-Hadid, Effect Of Urban And Mushroom Wastes Composts On Growth Of Cucumber (Cucumis Sativus L.) (2001). Egypt. J. Hort. 28, No 4, pp. 565-574*
7. *S.M. Attaher and M.A. Medany, A.A. Abdel Aziz and M.M. Mostafa, (2003). Energy Requirements and Yield of Drip Irrigated Potato Acta Hort. 608.*

8. M.A. Medany, U.A. El-Behairy, S.M. Attaher and A.F. Abou-Hadid, (2003). Prediction Of Some Soil Chemical Properties In Tnshki Using Empirical Equations *Acta Hort.* 608.
9. M.A. Medany, M. Abdrabbo, KM. Refaee and A.F. Abou-Hadid, (2003). Using Agrometeorological Data to Calculate Irrigation and Fertilization Requirement and Scheduling *for Vegetable Acta Hort.* 608.
10. Medany, M. A.; Hassanein, M. K. and Kadah, M. S., 2007. Greenhouse Gas Emissions from the Egyptian fermentation animals and Mitigation Options. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
11. Hassanein, M.K. and M.A. Medany, 2007. Adapting the CERES-Wheat model to simulate wheat under current and future climates in Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
12. Hassanein, M. K. and M.A. Medany, 2007. The impact of climate change on production of maize (*Zea Mays L.*). Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
13. Medany, M. A., M. A. A. Abdrabbo, K. M. Refaee and M. K. K. Hassanien, 2007. A schematic approach for fertilization scheduling under current and future climates on maize in Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
14. Medany, M. A; Hassanein, M. K; Khalil, A. A, 2007. Assessment Of The Impact Of Current And Future Climates On Rice Productivity In Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
15. Medany, M. A; Hassanein, M. K; Khalil, A. A., 2007. Adapting and validation of CERES-Rice model for predicting growth and yield of rice under Egyptian condition. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.

16. Medany, M. A.; Hassanein, M. K. and Kadah, M. S., 2007. Greenhouse gas emissions and mitigation options of manure management in Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
17. Attaher, S. M., M. A. Medany, A. A. Abdel Aziz, A. El-Gindy, 2007. Assessment of Irrigated Agriculture Vulnerability and Adaptation to Climate Change in Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
18. Medany, M. A. , Heba Y. Mohamed and Nabil N. AL-Hefnawy, 2007. The Impact Of Climate Change On Sea Level Rise At North Of Nile Delta. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
19. Medany, M. A. and S. M. Attaher, 2007. Climate Change and Irrigation in Mediterranean Region. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
20. Medany M. A., M. K. Hassanien, and S. M. Attaher, 2007. Analysis of Egyptian Paddy Rice Methane Emissions and Mitigation options. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
21. Medany M.A, S. M. Attaher, A. F. Abou-Hadid, 2007. Socio-economical analysis of agricultural stakeholders in relation to adapting capacity to climate change in Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
22. Abol-Maaty, S.M., M.A. Medany and N.N. EL-Hefnawy, 2007. Influence of the Impact of Climate Change on Some Rust Diseases of Wheat in Egypt. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.
23. Medany, M. A. and W. E. Aly, 2007. Vulnerability and adapting capacity of North Delta Agro-Community to Sea-level-Rise. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.

24. Farag A.A.A., M. A. A. Abdrabbo, Abul-soud M., M.A. Medany, 2007. The Impact of Climate Change on Wheat Production under Egyptian Condition. Submitted to the Int. Con. on Climate Change and their impacts on Coastal Zones and River Deltas: Vulnerability, Mitigation and Adaptation, Alexandria, Egypt, 2007. In press.