

SOIZIK LAGUETTE

EDUCATION

Ph.D. (<i>with high honors</i>)	ENGREF (French Institute of Forestry, Agricultural and Environmental Engineering), Paris, France	Environmental Science	1997
M.S.	Paul Valéry University, Montpellier III, France	Land Reclamation and Rural Development	1989
B.S.	Paul Sabatier University, Toulouse III, France	Vegetal Biology.	1988

PROFESSIONAL EXPERIENCE

2008-	<i>Director</i> , Center for People and the Environment, University of North Dakota
2008-	<i>Chair</i> , Department of Earth System Science and Policy, University of North Dakota
2008-	<i>Associate Professor</i> Earth System Science and Policy, University of North Dakota
2004-08	<i>Assistant Professor</i> Earth System Science and Policy, University of North Dakota
2002-04	<i>Assistant Research Professor</i> , University of North Dakota, Department of Earth System Science and Policy & Earth System Science Institute
1999-2002	<i>Postdoctoral Research Fellow</i> , University of North Dakota, Earth System Science Institute.
1997-99	<i>Postdoctoral Research Fellow</i> , Numerical Terradynamic Simulation Group (NTSG), University of Montana.
1993-97	<i>Graduate Research Assistant</i> , Joint Research Centre of the European Union (Ispra, Italy).
1989-93	<i>Junior Engineer</i> , The Joint Laboratory of Remote Sensing CEMAGREF-ENGREF Montpellier, France).
1986-87	<i>Press Attachée</i> , Conseil Régional Midi Pyrénées (Toulouse, France).

COURSES TAUGHT

Regular assignment and continuing education:

Courses taught

- Earth System Science and Policy I (graduate level, 5 credits, 1 class: Energy Cycle block)
- Earth System Science and Policy I Laboratory (graduate level, 2 credits, 1 class: Energy Cycle block)
- Earth System Science and Policy I Recitation (graduate level, 3 credits, 1 class: Energy Cycle block)
- Earth System Science and Policy II (graduate level, 5 credits, 1 class Biogeochemical Cycles)
- Earth System Science and Policy II Laboratory (graduate level, 2 credits, 1 class: Biogeochemical Cycles)
- Earth System Science and Policy II Recitation (graduate level, 3 credits, 1 class: Biogeochemical Cycles)

Guest Lecturer

- Earth System Science and Policy 501, guest lecture and laboratory on Ecosystem Productivity during the Biodiversity block.
- Earth System Science and Policy 502, guest lecture on Biogeochemical Cycle of the Biosphere and Net Primary Production during the Biogeochemical Cycles block.
- Geography department: Remote Sensing and Vegetation (graduate level)

Stakeholders training

- Remote Sensing Training: (for various stakeholders, one day training)
Introduction to remote sensing techniques, Advance remote sensing training

Advisees

Current Major Professorships

- One M.S. students, Three M.E.M. students –
 - Two M.E.M. student graduate

Theses/Dissertation/Graduate Projects Directed

- Master of Environment Management Report: three M.E.M. reports directed; one in progress.
- Directed Studies: four Directed Studies directed.

Graduate committee services

- member of seven graduate committee at UND and UMN -Crookston

INSTITUTIONAL SERVICES

College

- UND: Chair, Department of Earth System Science and Policy - John D. Odegard School of Aerospace Sciences
- Acting Director of the Northern Great Plains Center for People and the Environment
- JDOSAS's PI for the UND NSF ADVANCE proposal "Advancing Diversity and Representation of Women in STEM" submitted to NSF in November 2009.

ESSP Department

- Coordinator, Master of Environmental Management Degree Program
- Graduate Director

UND

- Presidential Ad Hoc Committee on Promotions – 2009-2010
- Vice President for Academic Affairs' outside representative on the Department of Languages & Literatures undergraduate program review team – 2009-2010
- Member of the UND Energy Task Force Committee: to explore development of energy program(s) at UND
- Member of the UND Environmental Study Undergraduate program Committee: to develop a UND undergraduate program in Environmental Study.
- Member of the committee that prepare the UND NSF ADVANCE proposal – Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

Other

- American Society of Agronomy: member of the Environmental Quality Research Award Committee.
- American Society of Agronomy: member of the National Club Poster Presentation Contest Committee.
- "Guest Editor" of the Journal of Terrestrial Observation Special Issue on "Geospatial Approaches to Land Systems Analysis in the Northern Great Plains "

GRANTS AND CONTRACTS

Total awarded \$51,825,964

2010-11 Northern Great Plain Center for People and the Environment – Year 9, NASA Earth Science Research Applications Grant. (Co-PI). \$3,000,000. Pending.
⇒ Acting PI and grant manager

- ⇒ PI of sub-project entitled: Combination of remote sensing measurements and crop growth models for switchgrass biomass estimate.
- 2010-14 UND - Advancing Diversity and Representation of Women in STEM – NSF ADVANCE (JDOSAS’s PI) - 5 years program, \$3,518,984. Submitted.
- 2009-11 Northern Great Plain Center for People and the Environment – Year 8, NASA Earth Science Research Applications Grant (#NNX09AQ81G). (Co-PI). \$3,000,000.
 ⇒ Acting PI and grant manager
 ⇒ PI of sub-project entitled: Potential of Switchgrass as a Renewable Energy Supply in the Northern Great Plains – phase II.
- 2008-09 Northern Great Plain Center for People and the Environment – Year 7. NASA Earth Science Research and Applications Grant (#NNX08AO97G). (co-PI). \$2,576,054
 ⇒ PI of sub-project entitled: Potential of Switchgrass as a Renewable Energy Supply in the Northern Great Plains.
- 2007-09 Spectral Characterization of Switchgrass for biomass energy and biofuel quality - ND EPSCoR, DOE Infrastructure Improvement Program, Seed Grants (#DE-FG02-06ER46292). \$32,295 (PI)
- 2007-08 Northern Great Plains Center for People and the Environment – Year 6. NASA Earth Science Research and Application Grant (#NNX06AE16G). \$ 2,767,000 (co-PI)
 ⇒ PI of sub-project entitled: Biomass Energy Management at Regional and Field Levels: From Land Use Mapping to *Panicum Virgatum* (Switchgrass) management.
- 2006-07 Northern Great Plains Center for People and the Environment – Year 5. NASA Earth Science Research and Application Grant (#NNS06AA83G). \$1,800,000 (co-PI).
 ⇒ PI of sub-project entitled: Land Use Mapping to Help Define Sustainable Bioenergy Regions in the Northern Great Plains.
- 2005-10 DC-8 Transfer to Create a National Suborbital Education and Research Center. NASA Earth Science and Applications Grant (#NNG05WC01A). \$24,999,303 (co-PI)
- 2005-08 USDA-ARS, Agricultural Research Service (#58-5445-5-338). \$699,000 (co-PI – Project Scientist).
- 2005-06 Northern Great Plains Center for People and the Environment – Year 4. NASA Earth Science Research and Application Grant (#NN204AB42G). \$2,149,000 (co-PI).
 ⇒ PI of sub-project entitled: Decision Support Tools for Detection and Prediction of Wheat Scab: Remote Sensing to Help Develop a Management System to Control Scab.
- 2003-04 Northern Great Plains Center for People and the Environment – Year 3. NASA Earth Science Research and Application Grant (#NAG13-03024). \$2,682,000 (co-PI).
 ⇒ PI of sub-project entitled: Decision Support Tools for Detection and Prediction of Wheat Scab.
- 2003-04 NASA/Raytheon, Building a Crop and Range Alert System – Synergy V (#SYNVSTG04), \$275,000 (Project Scientist).
- 2003-05 USDA-ARS, Agricultural Research Service (#58-5445-3-314), \$594,000 (co-PI).

- 2002-03 A Public Access Resource Center (PARC) Empowering the General Public to Use EOSDIS – Implementation Phase. NASA PARC Grant (#NAG5-3616). \$5,167,000 (Project Scientist).
- 2002-03 Northern Great Plains Center for People and the Environment – Year 2. NASA Earth Science Research and Application Grant (#NAG13-02047). \$1,996,000 (co-PI).
 ⇒ PI of sub-projects entitled: • Estimating Wheat Protein Content Prior to Harvest.
 • Use of Remotely Sensed Information in Crop Growth Mode.
- 2002-03 NASA/Raytheon, Building a Crop and Range Alert System – Synergy IV (#3000618), \$500,697 (co-PI - Project Scientist).
- 2001-02 Northern Great Plains Center for People and the Environment – NASA Earth Science Research and Application Grant (#NAG13-01006). \$1,496,000 (co-PI).
- 2001-02 NASA/Raytheon, Building a Crop and Range Alert System – Synergy III (#3000618), \$527,716 (co-PI - Project Scientist).
- 2000-01 NASA/Raytheon, Building a Crop and Range Alert System – Synergy II (#3000618), \$238,880 (co-PI – Project Scientist)
- 1999-00 NASA/Raytheon, Building a Crop and Range Alert System – Synergy I (#3000618), \$326,019 (co-PI – Project Scientist).

PUBLICATIONS /PERFORMANCES/EXHIBITS

Papers, Peer-reviewed

- Reynolds, G., Windels, C.E., MacRae, I.V., and Laguette, S. 2009. Hyperspectral remote sensing for detection of Rhizoctonia crown and root rot of sugarbeet. 2008 Sugarbeet Res. Ext. Rept. 39:229-236.
- Reynolds G., C. Windels, I. MacRae, S. Laguette, 2009. Hyperspectral remote sensing for detection of Rhizoctonia crown and root rot in sugar beet. 2009 American Phytopathological Society Annual Meeting. August 1-5, 2009 Portland, Oregon.
- Laguette S., H. Kim, 2008. Spectral Characterization of Switchgrass for Biomass Energy and Biofuel Quality. 2008 Joint Annual Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and Gulf Coast Association of Geological Societies in Houston, Texas, 5-9 October 2008.
- Laguette S., 2008. Mapping Optimal Growing Areas for Switchgrass Production in North Dakota. Tenth World Renewable Energy Congress, July19-25, 2008 Glasgow, Scotland, UK (to be published).
- Laguette S., R. Hanley, A. Kirilenko, 2007. Distributional modeling of cattails across North America with emphasis on the Northern Great Plains. The Third IASTED International Conference on Environmental Modeling and Simulation, August 20 – 22, 2007 Honolulu, Hawaii, USA.
- Laguette, S., 2004. The Potential Use of Remote Sensing to Improve Biomass Energy Management. World Renewable Energy Congress VIII. Denver, CO, USA.
- Laguette, S., Hollingsworth C.R., Motteberg C. D., MacRae I., 2004. Potentials and limits of remote sensing data for detection of Fusarium head blight on Hard Spring Wheat in Minnesota. 7th ICPA, Minneapolis, MN, USA.
- Seelan, S.K., Laguette, S., Casady, G.M., and Seielstad, G., 2003. Remote sensing application for precision Agriculture: A learning community approach. Remote Sensing of Environment. 88:157-169.
- Laguette S., H. Kim, 2008. Spectral Characterization of Switchgrass for Biomass Energy and Biofuel Quality. 2008 Joint Annual Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and Gulf Coast Association of Geological Societies in Houston, Texas, 5-9 October 2008.

Laguette S., M.J. Hill, 2008. Mapping optimal growing areas for switchgrass production in North Dakota. Tenth World Renewable Energy Congress, July 19-25, 2008 Glasgow, Scotland, UK.

Laguette S., R. Hanley, A. Kirilenko, 2007. Distributional modeling of cattails across North America with emphasis on the Northern Great Plains. The Third IASTED International Conference on Environmental Modelling and Simulation, August 20 – 22, 2007 Honolulu, Hawaii, USA.

Laguette, S., 2004. The Potential Use of Remote Sensing to Improve Biomass Energy Management. World Renewable Energy Congress VIII. Denver, CO, USA.

Laguette, S., Hollingsworth C.R., Motteberg C. D., MacRae I., 2004. Potentials and limits of remote sensing data for detection of Fusarium head blight on Hard Spring Wheat in Minnesota. 7th ICPA, Minneapolis, MN, USA.

Seelan, S.k., **Laguette, S.**, Casady, G.M., Seielstad, G., 2003. Remote sensing application for precision Agriculture: A learning community approach. Remote Sensing of Environment. 88:157-169.

Seielstad, G.A., **S. Laguette**, S. Seelan, L. Welling. 2002. Applications of Remote Sensing to Precision Agriculture with Dual Economic and Environmental Benefits. 29th International Symposium on Remote Sensing of Environment. Buenos Aires.

Seelan, S., O. Beeri, D. Baumgardner, G. Casady, **S. Laguette**, G. Seielstad. 2002 “A Crop and Range Alert System in the U.S. Northern Great Plains” 9th International SPIE Symposium on Remote Sensing, Agia Pelagia, Greece.

Laguette, S., Seelan S., Casady G., Wyatt E., Wivell C., 2001. Helping farmers and ranchers to use remote sensing as a basic Management tool: a development of an interactive remote sensing and image processing teaching process. IGARRS’2001, Sydney, Australia. VI: 2881-2883.

Laguette, S., G. Seielstad, S. Seelan, C. Wivell, D. Olsen, R. Lawrence, G. Nielsen, J. Rattling Leaf, D. Clay, K. Dalsted, 2001. Precision farming management via information dissemination. IGARRS’2001, Sydney, Australia. II:837-839.

Laguette, S., Seielstad G.A., Selan S., Wivell C.E., Clay D.E., Dalsted K., Reese C., Nielason G.A., Lawrence R.L., Maynard C., Rattling Leaf J., 2001. Rapid integration of remote sensed data into in-field management decisions. Third European Conference on Precision Agriculture. June 18-20 2001, Montpellier, France. 229-234.

Seielstad, G.A., **S. Laguette**, S. Seelan, R. Lawrence, G. A. Nielsen, D. Clay, K. Dalsted. 2001. Applications of Remote Sensing to Precision Agriculture with Dual Economic and Environmental Benefits. 8th International Conference on Remote Sensing, SPIE, Toulouse.

Vossen P., de Groof H., Loudjani Ph., Supit I., Genovese G., **Laguette S.**, 1998. Early assessment of national crop yield: The approach developed by the MARS-STAT Project on behalf of the European Commission. Proceeding COST77, 79, 711 – International Symposium on Applied Agrometeorology and Agroclimatology – Volos, Greece, 24 to 26 April 1996. Publication EUR 18328 EN of the official Publication of the E.U. 389-394.

Laguette S., Vidal A., Vossen P., 1997. Télédétection et estimation des rendements en blé en Europe. Ingénieries – EAT, 12:19-33.

Laguette S., Vidal A., Vossen P., 1995. Using satellite data into a productivity model. Proceeding IGARSS’95, Florence, Italy, 10-14 July 1995. 1465-1467.

Laguet S., Vidal A., Vossen P., 1995. Monitoring of yield indicators in Europe by combined use of NOAA-AVHRR and an agrometeorological model. Proceeding Of the international colloquium Photosynthesis and remote sensing, Montpellier, France, 28-30 August 1995. 323-326.

Vidal A., Taconet O., Moran S., Rahman A.F., Pelgrum H., Rijckenberg G.J., Normand M., Cellier P., Humes K., **Laguet** S., Olivier P., Rakatoarivony L., Vidal-Majar D., Clark T., Van Leeuwen H., 1993. Estimation of surface fluxes during Mac-Europe 1991 campaign using combined microwave and optical data. Proceeding Of CO-MEAS'93, Albuquerque NM, 22-25 March 1993, 90-94.

Presentation at conference, Seminars, Invited Talk, Posters

Invited Talk

Laguet S., 2008. Spectral Characterization of Switchgrass for Biomass Energy and Biofuel Quality. 2008 Joint Annual Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and Gulf Coast Association of Geological Societies in Houston, Texas, 5-9 October. (*To be presented in poster session*)

Laguet S., 2008. Mapping optimal growing areas for switchgrass production in North Dakota. Tenth World Renewable Energy Congress, July19-25, 2008 Glasgow, Scotland, UK.

Laguet S., 2008. Switchgrass for biofuel in the Northern Great Plains: remote sensing for energy properties and potential land use changes. Spring 2008 Colloquium Series, Department Earth System Science and Policy University of North Dakota.

Laguet S. 2008. Application of UMAC remote sensing data to the Glacial Ridge project. Glacial Ridge Conference. March 6, 2008 Erskine, MN, USA.

Laguet S., R. Hanley, A. Kirilenko, 2007. Distributional modeling of cattails across North America with emphasis on the Northern Great Plains. The Third IASTED International Conference on Environmental Modelling and Simulation, August 20 – 22, 2007 Honolulu, Hawaii, USA.

Laguet, S., 2004. The Potential Use of Remote Sensing to Improve Biomass Energy Management. World Renewable Energy Congress VIII. Denver, CO, USA.

Laguet, S., Hollingsworth C.R., Motteberg C. D., MacRae I., 2004. Potentials and limits of remote sensing data for detection of Fusarium head blight on Hard Spring Wheat in Minnesota. 7th ICPA, Minneapolis, MN, USA.

Laguet, S., 2003. Remote sensing principles. Farm Credit Services of Grand Forks, North Dakota.

Laguet, S., 2002. The importance of information dissemination for precision agriculture adoption. CNERTA (National Center of Studies and Resources in Advance Technologies), France.

Other

Laguet S., R. Hanley, A. Kirilenko, 2008. Predictive distributional modeling of three cattails species across North America Great Plains. Scholarly Forum, February 11-12, 2008. University of North Dakota Grand Forks, ND, USA.

Laguet, S., 2003. Broken tools make for a long summer: assessing the quality of ASD hand field spectroradiometer data. University of North Dakota.

Laguetto, S., S. Seelan, P. Carter and J. Peterson. 2003. Training Producers to Use Remote Sensing for Farming activities. American Society of Agronomy, North Central Branch Annual Meeting.

Seelan, S., D. Baumgartner, O Beeri, P. Carter, G. Casady, **S. Laguetto** and G. Seielstad. 2003. Remote Sensing for Risk Management and Sustainable Development – Experiences from an End User Oriented Crop and Range Alert System. 30th International Symposium of Environment, Honolulu, Hawaii..

Laguetto, S., 2002. Estimate Pre-Harvest Wheat Protein Content Using Remote Measurement of Chlorophyll Content. University of North Dakota.

Laguetto, S., Seelan S., Wivell C., Clay D., Dalsted K., Reese C., Lawrence R., Maynard C., Rattling Leaf J., 2001. Rapid integration of remote sensing data into in-field management decision: from acquisition to use of data. ASPRS annual conference, St. Louis.

Seelan, S., R. Green, **S. Laguetto** and C. Wivell. 2001. Assessment of Damage to Sugarbeet Crop Due to Errant Defoliant Chemical Drift. Presented at the Third International Conference on Geospatial Information in Agriculture and Forestry (ERIM), Denver.

Welling, L., J. Rask, **S. Laguetto**, S. Seelan, and G. Seielstad. 2001. The Northern Great Plains Center for People and the Environment: Building Learning Communities Toward a Sustainable Future. Presented at the Global Change Science Conference: Challenges of a Changing Earth, Amsterdam.

Seielstad, G.A., **S. Laguetto**, S. Seelan, R. Lawrence, M. Henry, C. Maynard, K. Dalsted, J. Rattling Leaf. 2001. Applications of Remote Sensing to Precision Agriculture. Invited paper presented at the 2001 Spring meeting of the American Geophysical Union, Boston.

Laguetto S., G. Seielstad, S, Seelan, C. Wivell, D. Olsen, R. Lawrence, G. Nielsen, J. Rattling Leaf, D. Clay, K. Dalsted, 2001. Precision Farming Management via Information Dissemination. IGARRS'2001, Sydney, Australia.

Laguetto S., Seelan S., Wivell C., Clay D., Dalsted K., Reese C., Lawrence R., Maynard C., Rattling Leaf J., 2001. Rapid integration of remote sensing data into in-field management decision: from acquisition to use of data. ASPRS annual conference, St. Louis.

Laguetto S., Seelan S., Casady G., Wyatt E., Wivell C., 2001. Helping Farmers and Ranchers to Use Remote Sensing As a Basic Management Tool: a Development of an Interactive Remote Sensing and Image Processing Teaching Process. IGARRS'2001, Sydney, Australia.

Laguetto S., Seielstad G.A., Selan S., Wivell C.E., Clay D.E., Dalsted K., Reese C., Nielason G.A., Lawrence R.L., Maynard C., Rattling Leaf J., 2001. Rapid integration of remote sensed data into in-field management decisions. Third European Conference on Precision Agriculture. June 18-20 2001, Montpellier, France.

Informal publication/popular articles

Guest Interview, Studio One, 2008. Evening Show, April 17, 2008. “Alternative fuel research is ongoing. With oil prices at an all time high people are anxious to find the next best fuel. A type of grass is gaining more attention for alternative means. Biofuel expert Soizik Laguetto is researching ways for the world to look toward grass as fuel.” Studio One – Grand Forks, ND

Growing energy on grassland. AGWEEK 23(37) April 21, 2008. Interview and Story by Matt Bewley. Grand Forks, ND

Other

Thesis

Laguettes, S., 1997. Use of NOAA-AVHRR data for wheat monitoring and forecasting at the European scale. Montpellier (France), Thèse de doctorat, Ecole Nationale du Génie Rural des Eaux et des Forêts - Centre de Montpellier, 170 pp.

Laguettes, S., 1989. Bilan de la politique agricole dans le parc national des Cévennes: évolution des milieux naturels. Mémoire en vue de l'obtention du DESS Aménagement Rural Développement Local. Université Paul Valéry, Montpellier III. 36 pp. (Assessment of agricultural policy in the Cévennes National Park: evolution of natural habitat - Degree of the Specialized Graduation Studies in Rural Management and Local Development.)

Technical reports, Workshop books chapters

Laguettes, S., Vidal A., Vossen P., 1998. Using NOAA-AVHRR data to forecast wheat yields at a European Scale. In "Agrometeorological Applications for Regional Crop Monitoring and Production" by Rijks D., Terres J.M., Vossen P., Accounts of the EU support group on agrometeorology (SUGRAM) 1991-1996. Publication EUR 17735 EN of the Office for Official Publication of the E.U. 131-146.

Laguettes S., Vidal A., 1997. Contract n° 11836-96-05 F1ED ISP F (between the CEMAGREF - ENGREF Remote Sensing Laboratory and the Joint Research Centre of the European Union - Space Applications Institute). Integrated Use of satellite and ground data for the quantitative estimation of wheat yield in the E.U. : modelling and validation - Final report. 21 pp.

Laguettes S., Vidal A., Vossen P., 1996. Wheat canopy productivity model at a European scale using NOAA-AVHRR data. Comparison with an agrometeorological model. COST 77 Workshop - the use of remote sensing technique in agricultural meteorology practice. Budapest, Hungary - 19 and 20 September 1995. Publication EUR 16924 EN of the Office for Official Publication of the E.U. 289 pp. 49-60.

Laguettes S., 1995. Combined use of NOAA-AVHRR Indices and agrometeorological Model for Yield Forecasting. Workshop for Central and Eastern Europe on Agrometeorological Models: Theory and Applications in the MARS Project. Publication EUR 16008 EN of the official Publication of the E.U. 246 pp. 197-208.

Laguettes S., Segala B., 1992. L'acquisition des données satellitaires, aériennes et de terrain sur deux zones d'études Languedoc Roussillon. Avril 1992. Pôle Télédétection Languedoc-Roussillon. 50 pp. + annexes. (Satellite, aerial, and ground data acquisition over two studies zones in the Languedoc-Roussillon Region)

LCT cemagref-ENGREF ESAP, Contrat CNES 90/CNES/00336, 1992. Impact de la sécheresse sur les productions agricoles. Complémentarité des données NOAA-AVHRR et SPOT HRV - Note de synthèse, 18 pp. (Drought consequences on agricultural productions – complementarity of NOAA-AVHRR and SPOT HRV data)

LCT cemagref-ENGREF ESAP, Contrat CNES 90/CNES/00336, 1991. Impact de la sécheresse sur les productions agricoles. Complémentarité des données NOAA-AVHRR et SPOT HRV - Rapport phase 1. 36 pp. (Drought impact on agricultural productions – complementarity of NOAA-AVHRR and SPOT HRV data – phase 1 Report)

Laguettes S., Royer A., 1990. La stratification régionale Languedoc-Roussillon. Décembre 1990. Pôle Télédétection Languedoc Roussillon. 80 pp. (Languedoc-Roussillon regional stratification).

Maurel P., **Laguettes S.**, Passouant M., 1990. Télédétection et occupation des sols, Casier 1 du périmètre irrigué BRL-Nîmes. Août 1990. LCT cemagref-ENGREF. 63 pp + annexes. (Remote sensing and land use: Casier 1 of the BRL-Nîmes irrigated perimeter.).

PROFESSIONAL ASSOCIATIONS

- American Society of Agronomy (ASA)
- Crop Science Society of America (CSSA)
- Soil Science Society of America (SSSA)
- IEEE Geosciences & Remote Sensing Society
- Remote Sensing and Photogrammetry Society
- Biomass Energy Research Association
- World Renewable Energy Congress – Network

HONORS, DISTINCTIONS AND FELLOWSHIPS

Designation of the Northern Great Plains Center for People and the Environment as a Center of Excellence in Research, Scholarship, and Creative Activity by the President of University of North Dakota (1 of only 3 units from UND designated), 2004

Self evaluation Soizik Laguette – ESSP/NGPCP&E November 25, 2009

Due to the dramatic change in ESSP and CP&E linked with Dr. Seielstad and Dr. Hanley departure, and the new responsibilities assigned to me following those changes, I have spent the major part of this year activities on Administrative and services tasks, then teaching. As a consequence my direct involvement in research activities was put on hold. This year I perform important leadership, administrative, and human resource functions as the Acting Director of the Center for People and the Environment, ESSP chairperson, student supervisor, and major professor. My goal was to favor a smooth transition into our new situation, especially after Dr. Seielstad retirement.

Main Accomplishments:

- Lead CP&E and ESSP into our new hierarchical structure, i.e., CP&E and ESSP reunited under the sole John Odegard School of Aerospace Science.
- Manage CP&E and ESSP:
 - working with Becky Mann on budget,
 - manage the department space by remodeling offices and giving our staff a descent office space and moving students in the same room, closer to faculty. Those moves were received extremely well by everyone involved.
 - Supporting faculty in there project especially Doug Olson with AgCam and Aerocam projects as well as the Center of Excellence
 - Going through the classical Chair duty.
 - Prepare all departmental reports, including annual reports, learning assessment reports and, together with the ESSP evaluation committee, faculty and student annual reviews
 - If not directly recommended by a faculty, identify strong applicants and recommend new students for admission to the university and department
- Write and submit the Earmark NASA proposal for 2009-2011
- Hold the UMAC meeting: new perspectives and future were redefined for UMAC. UMAC is in the process of working on its Assessment plan.
- Increase personal involvement in UND leadership activities and responsibilities. Develop ESSP visibility on campus.
- Effective liaison between federal funding agencies, NGOs, and private stakeholders
- EEEP 501 Energy block: beside the classical class activities, lead students during the capstone project; refining UND transportation data so the information may be use in the next step of UND commitment toward carbon neutral status.