LIST OF PUBLICATIONS OF PROF. R. LAL
1967-2015

R. Lal
Carbon Management and Sequestration Center
The Ohio State University
2021 Coffey Rd.
Columbus, OH, 43210

Phone: 614-292-9069
Fax: 614-292-7432
E-mail: lal.1@osu.edu
2015

Publications in 2015: 116

Books Edited

Referred Journal Articles


### Chapters in Multi-Authored Books


Invited Keynote Presentations


**Voluntary Contributions**


2014

Publications in 2014: 116

a) Books Edited


b) Referred Journal Articles


36. Liu, R. & Lal, R. 2014. Synthetic apatite nanoparticles as a phosphorus fertilizer for soybean (Glycine max). Scientific Reports. 4:5686. DOI: 10.1038/srep05686.


c) Chapters in Multi-Authored Books


d) Invited Keynote Presentations

89. Lal, R. Climate Strategic Agriculture. Indian Institute of Soil Science, Bhopal, India. 10-13 March 2014.
90. Lal, R. Soil Resilience and Climate Change. SSSA Ecosystem Services Conference, Sacramento, CA. 6-7 March 2014
91. Lal, R. The Role of Soil Scientists in Addressing Global Issues of Anthropocene and Climate Strategic Agroecosystems. 20th World Congress Soil Science, 8-13 June 2014, Jeju, Korea.
94. Stout, W., Kuby, M., Lal, R. Carbon Capture and Sequestration – Role of Agriculture and Soils. 18th CIGR World Congress, Beijing, China. 16-19 September 2014.

e) Voluntary Contributions


2013

Publications To date in 2013: 107

a) Books Edited


b) Referred Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Presentations

84. Lal, R. 2013. “Climate Strategic Agriculture”. Gamma Sigma Delta Annual Awards Ceremony, The Ohio State University, Columbus OH. 12 April 2013.
95. Lal, R. 2013. “Sustainable Intensification To Address Climate Change and Advance Food Security In Africa” Sustainable Intensification To Address Climate Change and Advance Food Security In Africa. SAU, Morogo, Tanzania. 12-16 November 2013.

e) Voluntary Contributions

105. Vincent Obade and Rattan Lal. A One Step Simplified Indicator for Rating Soil Quality. USDA CSCAP Annual Meeting, July 29th to August 1st, 2013 Location: Purdue University, West Lafayette, USA.
2012

Publications in 2012: 91

a) Books Written


b) Books Edited


c) Referred Journal Articles

18. Koch, Andrea; McBratney, Alex; Adams, Mark; Field, Damien; Hill, Robert; Lal, Rattan; Abbott, Lynette; Angers, Denis; Baldock, Jeffrey; Barbier, Edward; Binkley, Dan; Bird, Michael; Bouma, Johan; Chenu, Claire; Crawford, John; Butler Flora, Cornelia; Goulding, Keith; Gunwald, Sabine; Hempel, Jon; Jastrow, Julie; Lehmann, Johannes; Lorenz, Klaus; Minasny, Budiman; Morgan, Cristine; O'Donnell, Anthony; Parton, William; Rice, Charles; Wall, Diana; Whitehead, David; Young, Iain; Zimmermann, Michael. 2012. Soil Security: Solving the Global Soil Crisis. Global Policy.
19.
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35.
36.
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38.
39.


e) Invited Keynote Presentations


f) Voluntary Contributions


**g) Miscellaneous**


2011

Publications in 2011: 87

a) Books Written

b) Books Edited


c) Referred Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


64. Lal, R. 2011. Harnessing science knowledge for combating desertification, land degradation and drought. COP-10 Meeting, UNCCD, 17-18 October, Changwan, South Korea.


82. Lal, R. 2011. Initiatives to include soils on global political agenda to address emerging issues. Bonn 2011 Nexus Conference, 16-18 November, Bonn, Germany.

(f) Miscellaneous

(g) Voluntary Contributions

2010

Publications in 2010: 76

a) Books Written


b) Books Edited


c) Referred Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations

50. Lal, R. 2010. Carbon sequestration in agricultural systems as a strategy to mitigate climate change. INIFAP meeting, Campeche, Mexico, 21-22 November 2010.
64. Lal, R. Mulch farming for agroecosystems. IAEA, Vienna, Australia, 5-8 July 2010.

(f) Miscellaneous


(e) Voluntary Contributions

73. Selhorst, A. 2010. Carbon sequestration in golf course turfgrass systems. Carbon Dynamics in Urban Ecosystems Conference, Columbus, OH.
2009

Publications in 2009: 93

(a) Books Edited


(b) Referred Journal Articles


(d) Invited Keynote Presentations


67. Lal, R. 2009. Adapting to climate change through soil management. 4-9 July. CIMMYT, Astana, Kazakhstan.


72. Lal, R. 2009. Global soil resource base: degradation and lost to other uses. 6-8 April. OECD Cooperative Research Program (CPR), Prague, Czech Republic.


78. Lal, R. 2009. Opportunities and challenges in sequestering atmospheric CO2 through restoring of desertified lands. 4 September. COMLAND Conference, 6-9 September 2009, Magdeburg, Germany.

(e) Miscellaneous

2008

Publications in 2008: 81

a) Books Written


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Presentations


e) Miscellaneous Publications


(f) Voluntary Contributions


Publications in 2007: 89

a) Books Edited


b) Refereed Journal Articles

<http://www.eoearth.org/article/Offsetting_carbon_dioxide_emissions_through_minesoil_reclamation>.

c) Chapters in Multi-Authored Books

d) Miscellaneous Publications


e) Invited Keynote Presentations

73. Lal, R. 2007. Managing soil-water to advance food security in India. 17-20 September, PAU, Ludhiana, India.
f) Voluntary Contributions


Publications in 2006: 73

a) Books Edited

b) Refereed Journal Articles

c) Chapters in Multi-Authored Books


d) Invited Keynote Presentations


e) Voluntary Contributions

2005

Publications in 2005: 69

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books

d) Invited Keynote Presentations


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous

Total Publications in 2004: 62

**a) Books Written**


**b) Books Edited**


**c) Refereed Journal Articles**


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


f) Contributory Conference Papers in National and International Symposia


g) Miscellaneous


Total Publications in 2003: 29

a) Books Written


b) Refereed Journal Articles


c) Contribution to Multi-Authored Books


d) Invited Keynote Papers


27. Lal, R. 2003. Global Climate Change and Soil Carbon Dynamics. EMBRAPA (Brazilia), CENA (Univ. of Sao Paulo), 18-22 August, Brazil.


e) Miscellaneous

Total Publications in 2002: 55

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous

Total Publications in 2001: 51

a) *Books Edited*


b) *Refereed Journal Articles*


c) *Chapters in Multi-Authored Books*


d) Invited Keynote Speakers

45. Lal, R. 2001. Sustainable management of natural resources in India for food security and environment quality. 88th Session of the India Science Congress, 3-7 January 2001, IARI, New Delhi, India.

e) Contributory Conference Papers in National and International Symposia

f) Miscellaneous


Total Publications in 2000: 66

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


45. Lal, R. 2000. The sustainability of agriculture in a “climate change” driven environment. Ethanol Workshop Series, Ohio/DOE Ethanol Workshop. The Verne Riffe Center, 10 May 2000, Columbus, OH.


e) Contributory Papers in National and International Symposia


f) Miscellaneous


Total Publications in 1999: 55


b) Refereed Journal Articles

c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous

1998

Total Publications in 1998: 75

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Papers

59. Lal, R. 1998. Soil erosion and greenhouse effect. Workshop on Climate Change and the Mississippi River Region, Climate Institute, 10 June 1998, St. Louis, MO.

f) Contributory Conference Papers in National and International Symposia

g) Miscellaneous

Total Publications in 1997: 36

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Presentations


e) Miscellaneous


Total Publications in 1996: 21

a) Refereed Journal Articles


b) Chapters in Multi-Authored Books


c) Invited Keynote Papers


d) Contributory Conference Papers in National and International Symposia


\textit{e) Miscellaneous}

Total Publications in 1995: 40

Books Written


Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Papers


f) Contributory Conference Papers in National and International Symposia

Total Publications in 1994: 30

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) Contribution to Multi-Authored Books

e) Invited Keynote Papers


f) Contributory Conference Papers in National and International Symposia

Total Publications in 1993: 30

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous


1992

Total Publications in 1992: 18

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous

Total Publications in 1991: 41

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous


Total Publications in 1990: 29

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Papers


f) Contributory Conference Papers in National and International Symposia


1989

Total Publications in 1989: 32

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


1988

Total Publications in 1988: 34

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


f) Miscellaneous


1987

Total Publications in 1987: 29

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-authored Books


e) Invited Keynote Papers


f) Miscellaneous

Movies and Video Film for Classroom Teaching Produced by the United Nations University, Tokyo, Japan (1987-88)
26. Soil erosion (30 minutes)
27. Earthworms (20 minutes)
28. Termites (20 minutes)
29. Tropical deforestation (30 minutes)

1986

Total Publications in 1986: 32

a) Books Edited

b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


*d) Invited Keynote Papers*


**1985**

*Total Publications in 1985: 22*

*a) Refereed journal Articles*


*b) Invited Keynote Papers*


c) Contributory Conference Papers in National and International Symposia


1984

Total Publications in 1984: 28

a) Refereed Journal Articles


b) Chapters in Multi-Authored Books


c) Invited Keynote Papers


d) Contributory Conference Papers in National and International Symposia


1983

Total Publications in: 21

a) Refereed Journal Articles


b) Invited Keynote Papers


c) Contributory Conference Papers in National and International Symposia


d) Miscellaneous


1982

Total Publications in 1982: 17

Referred Journal Articles


**Invited Keynote Papers**


**Contributory Conference Papers in National and International Symposia**


**1981**

**Total Publications in 1981: 17**

a) **Books Written**


b) **Books Edited**


c) **Refereed Journal Articles**


d) Chapters in Multi-Authored Books


e) Invited Keynote Papers


1980

Total Publications in 1980: 25

a) Refereed Journal Articles


b) Chapters in Multi-Authored Books


c) Invited Keynote Papers


d) Contributory Conference Papers in National and International Symposia


1979

Total Publications in 1979: 26

a) Books Edited


b) Refereed Journal Articles

\textbf{c) Chapters in Multi-Authored Books}


\textbf{d) Invited Keynote Papers}


\textbf{e) Contributory Conference Papers in National and International Symposia}


\textbf{f) Miscellaneous}

1978

Total Publications in 1978: 14

a) Refereed Journal Articles


b) Chapters in Multi-Authored Books


c) Invited Keynote Papers


d) Contributory Conference Papers in National and International Symposia


1977
Total Publications in 1977: 12

a) Books Edited


b) Refereed Journal Articles


c) Chapters in Multi-Authored Books


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


1976

Total Publications in 1976: 15

a) Refereed Journal Articles


b) Chapters in Multi-Authored Books


c) Invited Keynote Papers


d) Contributory Conference Papers in National and International Symposia


e) Miscellaneous

15. Lal, R. 1976. Soil erosion investigations on Alfisols in

1975

Total Publications in 1975: 7

a) Refereed Journal Articles


b) Invited Keynote Papers


c) Contributory Conference Papers in National and International Symposia

d) Miscellaneous


1974

Total Publications in 1974: 10

a) Refereed Journal Articles


b) Chapters in Multi-Authored Books


c) Invited Keynote Papers


d) Contributory Conference Papers in National and International Symposia


1973

Total Publications in 1973: 1

Refereed Journal Articles


1972

Total Publications in 1972: 1
Refereed Journal Articles


1971

Total Publications in 1971: 2

Refereed Journal Articles


1970

Total Publications in 1970: 4

Refereed Journal Articles


1969

Total Publications in 1969: 1

Refereed Journal Articles


1967

Total Publications in 1967: 1

Refereed Journal Articles

# RESEARCH THESES OF GRADUATE STUDENTS SUPERVISED

<table>
<thead>
<tr>
<th>Name</th>
<th>Thesis Title</th>
<th>University</th>
<th>Degree</th>
<th>Year</th>
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<tr>
<td>A. Student Research Supervised at IITA</td>
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<tr>
<td>1. O. Babalola</td>
<td>Effects of subsoil gravel horizon on growth, root development and water relations of maize.</td>
<td>University of Ibadan</td>
<td>Ph.D</td>
<td>1974</td>
</tr>
<tr>
<td>3. P.O. Aina</td>
<td>The effects of rainfall, soil and management factors on soil erosion of Nigerian tropical soils.</td>
<td>The Ohio State University</td>
<td>Ph.D</td>
<td>1977</td>
</tr>
<tr>
<td>5. R.S. Harrison-Murray</td>
<td>Crop responses to mulching in tropical environment with special reference to high soil temperature.</td>
<td>University of Reading</td>
<td>Ph.D</td>
<td>1978</td>
</tr>
<tr>
<td>6. M. Poto</td>
<td>Soil and climate parameters affecting potential erosion hazard in Zaire.</td>
<td>University of Ibadan</td>
<td>M.Phil</td>
<td>1979</td>
</tr>
<tr>
<td>11. M. Banda</td>
<td>Plant-water relations as a criterion for screening for drought resistance in rice.</td>
<td>University of Zaire</td>
<td>Ph.D</td>
<td>1980</td>
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<tr>
<td>15. E.C. Amezquita</td>
<td>A study of the water regime of a soil during approach to field capacity and wilting point.</td>
<td>University of Reading</td>
<td>Ph.D</td>
<td>1981</td>
</tr>
<tr>
<td>17. L.T. Ogunremi</td>
<td>Tillage systems for rice production in different ecologies.</td>
<td>University of Ibadan</td>
<td>Ph.D</td>
<td>1983</td>
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</table>
### RESEARCH THERSES OF GRADUATE STUDENTS SUPERVISED - continued

<table>
<thead>
<tr>
<th>Name</th>
<th>Thesis Title</th>
<th>University</th>
<th>Degree</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>22. B. Kayombo</td>
<td>Crop response to soil compaction.</td>
<td>University of Copenhagen</td>
<td>Ph.D</td>
<td>1986</td>
</tr>
<tr>
<td>25. H. Mahoo</td>
<td>Baseflow and interflow with different land use systems.</td>
<td>Sokoine Agric. Univ. Morogoro</td>
<td>Ph.D</td>
<td>1987</td>
</tr>
<tr>
<td>30. M. Miller</td>
<td>Crop response to soil erosion.</td>
<td>University of California, Davis</td>
<td>Ph.D</td>
<td>1986</td>
</tr>
<tr>
<td>31. S. Huke</td>
<td>Vegetal cover and soil splash.</td>
<td>University of California, Davis</td>
<td>M.Sc</td>
<td>1984</td>
</tr>
<tr>
<td>32. A. Vanelslande</td>
<td>Erodibility of some Nigerian soils.</td>
<td>University of Louven</td>
<td>Ph.D</td>
<td>1986</td>
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**B. The Ohio State University**

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<thead>
<tr>
<th>Name</th>
<th>Thesis Title</th>
<th>University</th>
<th>Degree</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>33. H. Tanaka</td>
<td>Effects of vehicular traffic on soil physical and crop growth.</td>
<td>Japan</td>
<td>M.Sc</td>
<td>1990</td>
</tr>
<tr>
<td>34. R. Bajracharya</td>
<td>Intra-rill soil erodibility and soil properties.</td>
<td>Nepal</td>
<td>M.Sc</td>
<td>1991</td>
</tr>
<tr>
<td>36. M.L. Thomas</td>
<td>Land use and management effects on soil properties, runoff, erosion and water quality.</td>
<td>St. Lucia</td>
<td>M.Sc</td>
<td>1991</td>
</tr>
<tr>
<td>38. M. Hemminger</td>
<td>Water table management effects on soil physical and hydrological properties.</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>1993</td>
</tr>
<tr>
<td>39. M. Romero</td>
<td>Inter-rill erosion related to soil management and soil properties.</td>
<td>Costa Rica</td>
<td>M.Sc</td>
<td>1993</td>
</tr>
<tr>
<td>40. M. Tenywa</td>
<td>Partial areas leading to preferential runoff and erosion.</td>
<td>Uganda</td>
<td>Ph.D</td>
<td>1993</td>
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<tr>
<td>41. E. Salchow</td>
<td>Inter-dependent physical properties in spatially variable alluvial soils of southern Ohio.</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>1994</td>
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<tr>
<td>Name</td>
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<td>42. P. Fahnstock</td>
<td>Soil erosion and crop productivity.</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>1994</td>
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<tr>
<td>43. R. Bajracharya</td>
<td>Soil crusting and accelerated erosion.</td>
<td>Nepal</td>
<td>Ph.D</td>
<td>1995</td>
</tr>
<tr>
<td>44. Par Ivar Vaje</td>
<td>Nitrogen and moisture interaction on eroded soils.</td>
<td>Norway</td>
<td>Ph.D</td>
<td>1998</td>
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<tr>
<td>45. A.J. Tenge</td>
<td>Soil moisture and temperature interactions on eroded soils in Mlingano.</td>
<td>Tanzania</td>
<td>M.Sc</td>
<td>1995</td>
</tr>
<tr>
<td>46. A. M. Haering</td>
<td>Cropping systems effects on soil structure in Colombia.</td>
<td>Germany</td>
<td>M.Sc</td>
<td>1996</td>
</tr>
<tr>
<td>47. E. Salchow</td>
<td>Critical limits of soil quality parameters for eroded phases of Miamian soils.</td>
<td>U.S.A.</td>
<td>Ph.D</td>
<td>2001</td>
</tr>
<tr>
<td>50. N. Dagdelen</td>
<td>---</td>
<td>Turkey</td>
<td>M.Sc</td>
<td>1997</td>
</tr>
<tr>
<td>51. W. Trujillo</td>
<td>Carbon sequestration by tropical pastures</td>
<td>Columbia</td>
<td>Ph.D</td>
<td>1998</td>
</tr>
<tr>
<td>52. Par Ivan Vaje</td>
<td>Soil Erosion in Tanzania</td>
<td>Norway</td>
<td>Ph.D</td>
<td>1998</td>
</tr>
<tr>
<td>53. T. Houser</td>
<td>Mineland reclamation and soil quality</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>1999</td>
</tr>
<tr>
<td>54. K. Rutan-Jorgensen</td>
<td>Farming systems effects on soil properties</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>1999</td>
</tr>
<tr>
<td>55. R. Akis</td>
<td>Drainage and nitrate leaching</td>
<td>Turkey</td>
<td>M.Sc</td>
<td>1999</td>
</tr>
<tr>
<td>56. S. Duiker</td>
<td>Soil erosion and productivity in the Andean region</td>
<td>Holland</td>
<td>Ph.D</td>
<td>2000</td>
</tr>
<tr>
<td>57. V. Akala</td>
<td>C sequestration by mineland reclamation</td>
<td>India</td>
<td>Ph.D</td>
<td>2000</td>
</tr>
<tr>
<td>58. A. Lantz</td>
<td>Land use effects on C pool in soils of Ohio</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>2000</td>
</tr>
<tr>
<td>60. H. Holeplass</td>
<td>Soil carbon dynamics</td>
<td>Norway</td>
<td>M.Sc</td>
<td>2002</td>
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<tr>
<td>61. L. Mulumba</td>
<td>Soil C dynamics in different ecoregions</td>
<td>Uganda</td>
<td>Ph.D</td>
<td>2004</td>
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<tr>
<td>62. J. Hao</td>
<td>Tillage methods and soil C dynamics</td>
<td>China</td>
<td>M.Sc</td>
<td>--</td>
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<tr>
<td>63. K. Mahadevan</td>
<td>Land use and policy issues affecting SOC pool</td>
<td>India</td>
<td>Ph.D</td>
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<tr>
<td>64. S. S. Al-Adawi</td>
<td>Soil compaction</td>
<td>Oman</td>
<td>Ph.D</td>
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<tr>
<td>65. Y.L. Zinn</td>
<td>Soil carbon sequestration</td>
<td>Brazil</td>
<td>Ph.D</td>
<td>2004</td>
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<tr>
<td>68. S. Jagadamma</td>
<td>Soil carbon dynamics</td>
<td>India</td>
<td>M.Sc</td>
<td>2005</td>
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<tr>
<td>69. J. Tanzosh</td>
<td>Water quality and land use</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>2005</td>
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<tr>
<td>70. J. Elder</td>
<td>Soil carbon dynamics in peat soils</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>2005</td>
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<tr>
<td>71. S. Jagadamma</td>
<td>Mechanisms of soil carbon sequestration</td>
<td>India</td>
<td>Ph.D</td>
<td>2008</td>
</tr>
<tr>
<td>73. F. Kazi</td>
<td>Gaseous emissions</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>--</td>
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<tr>
<td>74. B. Shrestha</td>
<td></td>
<td>U. of Iceland</td>
<td>Ph. D</td>
<td>2007</td>
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</table>
### RESEARCH THERSES OF GRADUATE STUDENTS SUPERVISED

<table>
<thead>
<tr>
<th>Name</th>
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<th>Country</th>
<th>Degree</th>
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<tr>
<td>75. J. Godwin</td>
<td>C Dynamics</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>2008</td>
</tr>
<tr>
<td>76. Ji Young Jung</td>
<td>Switchgrass</td>
<td>S. Korea</td>
<td>Ph.D</td>
<td>2010</td>
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# SHORT-TERM VISITING SCHOLARS (2-4 WEEKS)

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<td>1. A.K. Yadav</td>
<td>CCSHAU, Hisar, India</td>
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<td>2. G. Jayashree</td>
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<td>29 September – 12 October 2003</td>
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<td>5. S. Sarkar</td>
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# RESEARCH SCIENTISTS SUPERVISED

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