PROFESSOR RATTAN LAL
LIST OF PUBLICATIONS
1967-2019

Professor Rattan 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
Publications: 92

Books Written


Books Edited

Refereed Journal Articles


Chapters in Multi-Authored Books


Invited Keynote Presentations


51. Lal, R. 2019. Biochar: Potential and Challenges. Presentation to The Andersons Inc., 11th January 2019, Derby Hall, The Ohio State University, Columbus, Ohio, USA.


58. Lal, R. 2019. Importance of Soil Carbon Management to Agricultural Sustainability and Climate Change Mitigation. Sustainability Institute Faculty Research Networking Event. 28th March 2019, Columbus, Ohio, USA.
71. Lal, R. 2019. Summer Commencement Speech, 422nd Commencement The Ohio State University, 4th August 2019, Columbus, OH
73. Lal, R. 2019. Managing Soils to Address Global Issues of the 21st Century. Presentation at the Faculty of Agronomic and Food Sciences, Pontifical Catholic University of Valparaiso, 21st August 2019, Quillota, Chile
82. Lal, R. 2019. Adaptation and Mitigation of Climate Change in India by Soil Conservation and Restoration. Soil and Water Resources Management for Climate Smart Agriculture and Global Food and Livelihood Security. 5-9 November 2019, New Delhi, India.
84. Lal, R. 2019. Relevance of Science to Agriculture and Climate Change in the LAC Region. COP25. 3-5 December 2019. Madrid, Spain.

Conference Papers

86. Lorenz, K., R. Lal. 2019. Long-term effects of organic agriculture on soil organic carbon stocks up to one meter depth—a contribution to greenhouse gas mitigation? Byrd Center Symposium on Climate Change. 22nd March, 2019. Scott Hall. The Ohio State University. Columbus, Ohio, USA.

Miscellaneous


Newsletter Quarterly Viewpoints

Books Written


Books Edited


Refereed Journal Articles


Chapters in Multi-Authored Books


Invited Keynote Presentations


93. Lal, R. 2018. Soil organic carbon and climate change. Maharishi Dayanand University, 14th March 2018, Rohtak, India


95. Lal, R. 2018. Soil health and India’s agriculture. TAAS, 12th April 2018, New Delhi, India.


97. Lal, R. 2018. Managing urban soils for food and environment. SUITMA 9, 22-26th May 2018, Moscow, Russia


100. Lal, R. 2018. Soil-centric approach to advancing global food security. GIFS, 18th June 2018, Saskatoon, Canada.


103. Lal, R. 2018. Soil as the keystone of mitigation and adaptation of climate change. UIMP, July 24-25, Santander, Spain.


113. Lal, R. 2018. Managing world soils for confronting the challenges of climate change. The Beckman Institute, 16 October, University of Illinois, Champaign-Urbana, Illinois, USA.


115. Lal, R. 2018. Conservation agriculture. Ministry of agriculture and rural affairs (MARA), China 22nd October, Ohio State University, Columbus, Ohio.


Miscellaneous


IUSS Monthly Letters

ix. Lal, R. 2018. Did the stone age end because the world ran out of stone? 1st August 2018.
Books Written


Books Edited


Refereed Journal Articles


**Chapters in Multi-Authored Books**


Voluntary Contributions


Invited Keynote Presentations


82. Lal, R. 2017. Soil as a nexus tool. FEW Nexus Workshop, 25-27 January 2017 at Texas A&M University, College Station, Texas.


86. Lal, R. 2017. Climate change and agriculture production: adapting crops to increased climate variability and uncertainty. Bihar Agricultural University, 6-8 April 2017, Sabour, Bhagalpur, India.


93. Lal, R. 2017. Managing urban soils for food security and climate change. SUITMA 9, 22-27 May 2017, Moscow, Russia
100. Lal, R. 2017. Food-energy-water-soil security under climate change. TAMU, 26th September, College Station, TX.

Miscellaneous

116. Lal, R. 2017. Soil and Climate. IUSS Fact Sheet

IUSS Monthly Viewpoint

Refereed Journal Articles


Chapters in Multi-Authored Books


Voluntary Contributions
96. unundardóttir, O.K., G. Gisladóttir, R. Lal. 2016. New land, new opportunities. Vegetation succession and soil formation within the heterogenous moraines formed by the Skáfafellsjökull and Breiðamerkurjökull outlet glaciers in Southeast Iceland. EGU General Assembly 2016, held 17-22 April, 2016 in Vienna Austria, p.14240

Invited Keynote Presentations
100. Lal, R. 2016. Solutions Under Foot: Can Soil Save Us from Ourselves. School of Earth Science, Ohio State University, 25 February 2016, Columbus.
104. Lal, R. 2016. Environment and Agriculture. Federal University of Mato Grosso (UFMT), Cuiaba, Brazil 9-13 May 2016
106. Lal, R. 2016. The Ohio State University. Federal University of Mato Grosso (UFMT), Cuiaba, Brazil 9-13 May 2016
108. Lal, R. 2016. Soil Health and Sustainability. GIFS Conference, Saskatoon, Canada, 14-16 June
110. Lal, R. 2016. Soil C for Climate Change, Food Security and SDGs of the U.N. Brussels, Belgium

Miscellaneous

126. Lal, R. 2016. Soils and Climate change: is the solution to CO₂ under our feet? Farm Journal
128. Lal, R. 2016. Soil health and carbon sequestration. The California Environmental Health Initiative
Publications in 2015: 123

a) Books Written

b) Books Edited


c) Refereed Journal Articles

8. Bordonal, R., R. Lal. 2015 Greenhouse gas balance from cultivation and direct land use change of recently established sugarcane (Saccharum officinarum) plantation in south-central Brazil. Renewable and Sustainable Energy Reviews. 52: 547-556
sequences in some drylands of Punjab, Pakistan. Land Degradation and Development DOI: 10.1002/ldr.2345

d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations

100. Lal, R. 2015. Managing Landscape for Environmental Sustainability. International Conference on Climate Change and Multi-dimensional Sustainability in African Agriculture, Morogoro, Tanzania, 3-5 June, 2015

f) Voluntary Contributions


g) Miscellaneous
a) Books Edited

b) Refereed Journal Articles


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


Sustainable Intensification to Advance Food Security and Enhance Climate Resilience in Africa, Springer, Cham, 603-616.


d) Invited Keynote Presentations


84. Lal, R. Climate Strategic Agriculture. Indian Institute of Soil Science, Bhopal, India. 5-7 August 2014.

85. Lal, R. Soil Resilience and Climate Change. SSSA Ecosystem Services Conference, Sacramento, CA, 6-7 March 2014

86. 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.


89. 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


f) Voluntary Contributions

g) Miscellaneous

2013

Publications in 2013: 106

a) Books Written


b) Books Edited


c) Refereed Journal Articles

27. Liang, Long; Lal,Rattan; Du,Zhangliu; Wenliang Wua, Fanqiao Menga. 2013. Estimation of nitrous oxide and methane emission from livestock of urban agriculture in Beijng. Agriculture Ecosystems & Environment. 170, 28-35

d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


83. Lal, R. 2013. “Climate Strategic Agriculture”. Gamma Sigma Delta Annual Awards Ceremony, The Ohio State University, Columbus OH, 12 April 2013.


94. 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.

f) Voluntary Contributions

104.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: 99

a) Books Written

b) Books Edited


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.


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


74. Lal, R. 2012. Healing the Climate and Feeding the World. Nationwide Insurance, 4 April 2012, Columbus, OH.


f) Voluntary Contributions


g) Miscellaneous
Publications in 2011: 76

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


f) Voluntary Contributions


g) Miscellaneous
Publications in 2010: 74

a) Books Written


b) Books Edited


c) Refereed Journal Articles

d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


\textit{f) Voluntary Contributions}

68. Lorenz, K. 2010. Carbon Storage in Urban Forest Soils in Columbus, Ohio. Carbon Dynamics in Urban Ecosystems Conference, Columbus, OH.
69. Selhorst, A. 2010. Carbon sequestration in golf course turfgrass systems. Carbon Dynamics in Urban Ecosystems Conference, Columbus, OH.

\textit{g) Miscellaneous}

2009

Publications in 2009: 89

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations

63. Lal, R. 2009. Adapting to climate change through soil management. 4-9 July. CIMMYT, Astana, Kazakhstan.
64. Lal, R. 2009. Carbon sequestration in world soils. 3-6 June. IFPRI/UNFCC, Bonn, Germany.
74. 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.

f) Voluntary Contributions

g) Miscellaneous

Publications in 2008: 79

a) Books Written


b) Books Edited

c) Refereed Journal Articles


do Chapters in Multi-Authored Books

e) Invited Keynote Presentations

f) Voluntary Contributions

71. Shrestha, R.K., R. Lal, and P.A. Jacinthe. 2008. Enhancing carbon and nitrogen sequestration of reclaimed mine soils in Ohio by using organic amendments and deep ripping. SSSA/ASA/CSSA annual meeting. 5-9 October, Houston, TX.

g) Miscellaneous Publications

Publications in 2007: 87

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


f) Voluntary Contributions

g) Miscellaneous

Publications in 2006: 82

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


f) Voluntary Contributions


69

2005

Publications in 2005: 60

a) Books Written

b) Books Edited


b) Books Edited


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


f) Contributory Conference Papers in National and International Symposia


g) Miscellaneous

2004

Total Publications in 2004: 65

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) **Chapters in Multi-Authored Books**


e) **Invited Keynote Presentations**

j) Contributory Conference Papers in National and International Symposia


g) Miscellaneous


2003

Total Publications in 2003: 35

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Papers

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

f) Voluntary Contributions

g) Miscellaneous

Total Publications in 2002: 49

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


g) Miscellaneous

Total Publications in 2001: 52

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Speakers

46. 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.

f) Contributory Conference Papers in National and International Symposia


g) Miscellaneous


2000

Total Publications in 2000: 72

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books

e) Invited Keynote Presentation


47. Lal, R. 2000. Controlling greenhouse gases and feeding the world through soil management. Distinguished University Lecture, 17 February 2000, OSU, Columbus, OH.


f) Contributory Papers in National and International Symposia


g) Miscellaneous
1999

**Total Publications in 1999: 50**

*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

g) Miscellaneous

Total Publications in 1998: 73

a) Books Written

b) Books Edited

c) Refereed Journal Articles

d) Chapters in Multi-Authored Books


e) Invited Keynote Papers

57. 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 Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Presentations


f) Voluntary Contributions

g) Miscellaneous

Total Publications in 1996: 24

a) Books Written

b) Books Edited

c) Refereed Journal Articles

7. Lal, R. 1996. Deforestation and land-use effects on soil degradation and rehabilitation in western Nigeria. II. Soil chemical properties. Land Degradation and Development 7:87-98

d) Chapters in Multi-Authored Books


e) Invited Keynote Papers


f) Contributory Conference Papers in National and International Symposia


g) Miscellaneous

Total Publications in 1995: 339

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


g) Miscellaneous
Total Publications in 1994: 32

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

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


Total Publications in 1993: 30
e) Invited Keynote Papers


f) Contributory Conference Papers in National and International Symposia


g) Miscellaneous


1992

**Total Publications in 1992: 18**

### 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


### g) Miscellaneous

1991

Total Publications in 1991: 42

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


g) Miscellaneous

Total Publications in 1990: 31

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


g) Miscellaneous

Total Publications in 1989: 31

a) Books Written

b) Books Edited

c) Refereed Journal Articles


d) Chapters in Multi-Aauthored Books


e) Invited Keynote Papers


f) Contributory Conference Papers in National and International Symposia


g) Miscellaneous
Total Publications in 1988: 34

1988

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


g) Miscellaneous

Total Publications in 1987: 28

a) Books Written


b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-authored Books


e) Invited Keynote Papers


f) Voluntary Contributions

g) Miscellaneous

Movies and Video Film for Classroom Teaching Produced by the United Nations University, Tokyo, Japan (1987-88)
25. Soil erosion (30 minutes)
26. Earthworms (20 minutes)
27. Termites (20 minutes)
28. Tropical deforestation (30 minutes)
115

1986

Total Publications in 1986: 32

a) Books Written

b) Books Edited


c) Refereed Journal Articles


d) Chapters in Multi-Authored Books


e) Invited Keynote Papers


f) Voluntary Contributions

g) Miscellaneous
1985

Total Publications in 1985: 23

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


Total Publications in 1984: 28

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


g) Miscellaneous
1983

Total Publications in: 21

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

g) Miscellaneous
1982

Total Publications in 1982: 17

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


g) Miscellaneous
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


f) Voluntary Contributions

g) Miscellaneous
Total Publications in 1980: 25

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

g) Miscellaneous
Total Publications in 1979: 26

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


g) Miscellaneous

Total Publications in 1978: 14

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


g) Miscellaneous
Total Publications in 1977: 12

\( a \) 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


\( g \) Miscellaneous
Total Publications in 1976: 15

**Books Written**


**Books Edited**

**Refereed Journal Articles**


**Chapters in Multi-Authored Books**


**Invited Keynote Papers**


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

1975

Total Publications in 1975: 7

a) Books Written


b) Books Edited

c) Refereed Journal Articles


d) Invited Keynote Papers


e) Contributory Conference Papers in National and International Symposia


g) Miscellaneous

1974

Total Publications in 1974: 10

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


g) Miscellaneous

1973

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1972

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1971

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<th>Refereed Journal Articles</th>
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1970

Refereed Journal Articles

Total Publications in 1970: 4


1969

Refereed Journal Articles

Total Publications in 1969: 1


1967

Refereed Journal Articles

Total Publications in 1967: 1

<table>
<thead>
<tr>
<th>Name</th>
<th>Thesis Title</th>
<th>University</th>
<th>Degree</th>
<th>Year</th>
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<tbody>
<tr>
<td>A. Student Research Supervised at IITA</td>
<td></td>
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</tr>
<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>8. M. Bonsu</td>
<td>Hydrological properties of a toposequence on an Alfisol in Nigeria.</td>
<td>University of Ghana</td>
<td>M.Sc</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>
</tr>
<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>
</tr>
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## RESEARCH THESES OF GRADUATE STUDENTS SUPERVISED - continued

<table>
<thead>
<tr>
<th>Name</th>
<th>Thesis Topic</th>
<th>University</th>
<th>Degree</th>
<th>Year</th>
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<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>
</tr>
</tbody>
</table>

### B. The Ohio State University

<table>
<thead>
<tr>
<th>Name</th>
<th>Thesis Topic</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>
</tr>
<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>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>P. Fahnstock</td>
<td>Soil erosion and crop productivity.</td>
<td>U.S.A.</td>
<td>M.Sc</td>
<td>1994</td>
</tr>
<tr>
<td>Par Ivar Vaje</td>
<td>Nitrogen and moisture interaction on eroded soils.</td>
<td>Norway</td>
<td>Ph.D</td>
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146. Manman Fan  China  2017-2018
147. Yao Jingtao  China  2017-2018
148. Zhenwei Song  China  2017-2018
149. Kristine Pascal  Philippines  2017
150. Changqi Zhang  China  2018-2019
151. Junjie Li  China  2018-2019
152. Nadia Sabir  Pakistan  2018-2019
153. Biswajit Das  India  2019
154. Xiaodan Gao  China  2019
155. Yingde Xu  China  2019-2021
156. Fengkui Qian  China  2019
157. Nour el Houda Abed  Algeria  2019
158. Karabi Pathak  India  2019-2020
159. Hao Su  China  2019-2020
160. Mah-noor Azad  Pakistan  2020
161. Manjeet Kaur  India  2020
162. Vladimir Ivezic  Czech Republic  2020

SHORT-TERM VISITING SCHOLARS (2-4 WEEKS)

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<th>Name</th>
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<tr>
<td>1. A.K. Yadav</td>
<td>CCSHAU, Hisar, India</td>
<td>4-10 September 2003</td>
<td>Carbon Sequestration</td>
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<tr>
<td>2. G. Jayashree</td>
<td>CCPI, Angrau, Hyderabad</td>
<td>29 September – 12 October 2003</td>
<td>Advanced Tillage Practices</td>
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<td>5. S. Sarkar</td>
<td>CCPI, BCKV, Gayeshpur</td>
<td>29 September – 12 October 2003</td>
<td>Advanced Tillage Practices</td>
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<td>7. T.K. Sen</td>
<td>NBSSLP, Nagpur India</td>
<td>20 November – 4 December 2003</td>
<td>Soil Quality Assessment</td>
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<tr>
<td>11. P.C. Bora</td>
<td>Assam Agric. Univ., Jorhat</td>
<td>11-26 October 2004</td>
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<td>12. S. Sudhishri</td>
<td>Assam Agric. Univ., Jorhat</td>
<td>11-26 October 2004</td>
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<td>13. V. Nayyar</td>
<td>PAU, Ludhiana, India</td>
<td>11-26 October 2004</td>
<td>Soil Management</td>
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<td>14. R.P. Rajput</td>
<td>JNKVV, Jabalpur, India</td>
<td>11-26 October 2004</td>
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<td>15. D.K. Pahalwan</td>
<td>JNKVV, Jabalpur, India</td>
<td>11-26 October 2004</td>
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<td>16. A. Chandrasekaran</td>
<td>MSSRF, Pudukottai</td>
<td>11-26 October 2004</td>
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<td>17. D. Singh</td>
<td>PAU, Ludhiana, India</td>
<td>11-26 October 2004</td>
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<td>18. D. Varma</td>
<td>MSSRF, Chennai</td>
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### RESEARCH SCIENTISTS SUPERVISED

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>1. Humberto Blanco-Canqui</td>
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<td>2. Manoj Shukla</td>
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<td>3. Raj Shrestha</td>
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<td>5. David Ussiri</td>
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<td>6. Sandeep Kumar</td>
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<td>9. Sami Khanal</td>
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<td>10. Raj Shrestha</td>
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### UNDERGRADUATE STUDENTS and INTERNS SUPERVISED

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>1. Samantha Sekar</td>
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<td>4. Anna Newell</td>
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<td>5. Crystina Bakus</td>
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<td>6. Blake Weber</td>
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<td>7. Vanessa Colon</td>
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<td>8. Janelle Watts</td>
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<td>9. Lauren Hughes</td>
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