

System of Rice Intensification International Network and Resources Center (SRI-Rice)





Cornell University

Cornell International Institute for Food, Agriculture and Development

Message from the Director



Erika Styger meets with scientists and professors at Tamil Nadu Agricultural University at the Krishni Vigyan Kendra Center in Sandhiyar, Salem District, Tamil Nadu, India.

The SRI International Network and Resources Center (SRI-Rice), established in 2010 with funding from Jim Carrey's Better U Foundation and based at Cornell University in the Cornell International Institute for Food, Agriculture and Development (CIIFAD), was created in response to the increasing importance of the System of Rice Intensification (SRI). SRI is an agro-ecological methodology that increases the productivity of rice by 20-100%, while using less water, less seed and less chemical fertilizer, enabling farmers to make better use of their already-available resources to raise incomes and reduce food insecurity in environmentally-benign ways.

By adapting the four main principles of SRI - i) early and quick establishment of healthy plants, ii) reduced plant density, iii) organic-matter-enriched and aerated soils, and iv) reduced and controlled water applications - farmers in more than 50 countries have been able to observe significant yield increasing effects when planting their rice with the SRI methodology. In several countries farmers have begun to adapt these principles to grow other crops such as wheat, sugarcane, finger millet, tef, mustard, and various legume and vegetable crops.

The mission of SRI-Rice is to advance and share knowledge about the System of Rice Intensification and its derived practices and principles, and to support networking among interested organizations and individuals around the globe.

Our vision is to improve rice and other agricultural productivity based on environmentally-friendly practices that help to better withstand changing climate conditions and that lead to improved food security and reduced poverty.

Now in its second year of existence, SRI-Rice has expanded its outreach to become the main platform in the world for learning about any aspect of SRI, for sharing knowledge, and for finding others working on similar issues. This past year we have begun work on three major initiatives: a global SRI Research Network, a SRI West Africa Regional Network and a SRI Latin America and Caribbean Network.

Message from the Director

Members of the SRI-Rice team gave more then 40 official presentations to research, development and farmer audiences during travel to 18 countries, published ten articles in scientific or technical journals and popular magazines, and assisted three projects in Africa: i) starting a three-year SRI training program for Peace Corps Volunteers in West Africa, ii) planning a private-sector rice production initiative in Sierra Leone, and iii) giving staff training and technical advise for the USAID-funded NAFAKA project in Tanzania.

At Cornell University, we have taught classes on SRI, organized seminars with visiting SRI scholars and practitioners, and set up internships for Cornell students in India and Cuba. Our newly launched and redesigned SRI-Rice website and its social media platform became an official member of the Agriculture Network Information Center (AgNIC), a national alliance of 'Centers of Excellence' coordinated by the US National Agriculture Library of USDA. Also at Cornell, we worked with the Conservation Agriculture (CA) Program and provided technical oversight for the Cornell University Conservation Agriculture Global Research and Resources Website. We see SRI and CA as "sister" approaches as both help to improve agricultural productivity with the resources available on location.

For our third year, we look forward to further developing the programs already underway, with focus on the international research network and on the regional initiatives. It is estimated that SRI is practiced today by four to five million smallholder farmers in more then 50 countries, mostly (but not all) in developing countries. The demand for information about SRI is increasing steadily, especially from Africa, and we are excited to continue helping partners find answers to their technical questions and to assist in developing research and development projects in the field. SRI represents an important agricultural paradigm change that is happening with small-scale farmers across the planet, and it is a privilege to play a part in this revision of thinking and practice. Check out our website, join our social media platforms, and learn from the many wonderful innovations that we can tell you about every day.

Erika Styger Director of Programs



Field visit with NGO Pragati in Koraput, Orissa, India.

SRI-Rice Annual Report

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Overview

SRI-Rice activities are grouped into three focus areas, which serve to advance our mission and vision:

- I. MANAGING AND SHARING KNOWLEDGE
- II. GENERATING AND ADVANCING KNOWLEDGE
- III. SUPPORTING AND DEVELOPING NETWORKS

SRI-Rice contributes to CIIFAD's mission to make significant contributions to sustainable global development, as well as to Cornell University's mission to discover, preserve, and disseminate knowledge; produce creative work; promote a culture of broad inquiry throughout and beyond the Cornell community; and to enhance the lives and livelihoods of people around the world. The following report highlights SRI-Rice activities from July 1st, 2011 to June 30, 2012.



Omar Aboubacrine, coordinator at the Timbuktu Food Security Initiative, Africare, has been a leader in introducing and scaling up SRI in the Timbuktu region, Mali, since 2008.

I. MANAGING AND SHARING KNOWLEDGE

The SRI-Rice Center is the world's main platform for obtaining information about any aspect of SRI, for sharing one's own knowledge, and connecting with others working on similar issues. In daily communication with people from around the world, and in trying to be in touch with the leading SRI implementers and innovators and the national SRI networks, we facilitate the sharing of new knowledge about SRI. We do our best to track what is happening, where it happens, and who makes it happen. We try to be on top of emerging ideas, and to gauge how best new information can be harnessed and shared with the public.

We share knowledge broadly and freely through the SRI-Rice website and through linked social media, through informal personal outreach responding to daily demands, and through formal outreach using presentations, publications and technical assistance. SRI knowledge is kept in the public domain, part of the global knowledge commons intended to enable households around the world to have better, more secure lives.

SRI-Rice Online

SRI-Rice Online consists of our main website, http://sri.ciifad.cornell.edu/ and a suite of social media and web services to keep us connected with researchers, farmers, NGOs and others from government, civil society and the general public.

Our main website was redesigned and re-launched in October 2011 to add improved navigation opportunities, auto-translation into 26 languages, enhanced search functions (site search and a dedicated search function specifically for researchers), and more powerful analytics to track progress in attracting new users and serving our intended audience.



Our website recorded a total of 40,750 site visits last year, with 26,818 unique visitors viewing a total of 123,276 pages. Thus, on average, a user visited 3.03 pages and spent 4.23 minutes on our site. According to the language setting of their browsers, 85% of the visitors were English-speaking, followed by Spanish, French, Japanese, Indonesian, Dutch and Chinese speakers. Twenty three per cent of our visitors were from the United States, with another 17% and 5% from India and Indonesia, respectively. The number of visits to our site has doubled from the inception of SRI-Rice in 2010, as seen from the number of site-visits going from 2,547 in July 2010 to 5,024 in July 2012.

SRI-Rice Logo

The new SRI logo went public this year and is now found on all our publications and Internet sites. The logo has three variations:







Social media platforms

We have upgraded our social media presence through various outlets as follows:

- Twitter: (@SRIRice) 158 followers and 114 tweets in June 2012.
- **Facebook:** Since its inception, the SRI-Rice site has received 314 page "likes," and is seen in an average week by about 750 Facebook users. www.facebook.com/SRIRice
- Mendeley: The System of Rice Intensification Research Network is now open to the public, although its formal launch will be in the coming year. http://www.mendeley.com/ groups/1178631/system-of-rice-intensification-research-network/
- Global News and Views SRI Blog: Monthly blog on current topics referring readers to our website for further information. http://srinewsandviews.blogspot.com/
- LinkedIn: The SRI International Network and Resources Center Linkedin page is for professional discussions, primarily with development professionals, with 26 members currently subscribed. http://www.linkedin.com/groups/SRI-International-Network-Resources-Center-3928316
- **Slideshare:** The SRI-Rice channel contains nearly 320 PowerPoint presentations and has 33 followers. http://www.slideshare.net/SRI.CORNELL/
- Picasa: Photo gallery with 55 albums, linked to the main website





SRI-Rice Blog

SRI-Rice Twitter page



SRI-Rice Facebook page



SRI-Rice You Tube Channel



SRI-Rice Linked-In

Daily updates

The SRI-Rice website is updated daily with global SRI news and information from nearly 50 countries.

SRI research database

Compilation of all published research articles has been underway since SRI-Rice was created in 2010. We have systematically collected scientific SRI articles published from around the globe by browsing numerous research databases and by obtaining difficult-to-find articles from China and India. More than 80 Chinese articles were collected with assistance from Mann Library at Cornell, with help from a visiting scholar from China, and through the efforts of a Cornell student able to read Chinese. In total, more then 300 articles have been inventoried and are available at http://sri.ciifad.cornell.edu/research/JournalArticles.html and in our Refworks database. The research database is updated weekly with the help of a Cornell student. In addition to the peer-reviewed research database, we also collect and publish other research publications: theses, book chapters, and unpublished reports.

SRI-Rice video

YouTube Channel: 17 playlists featuring more than 200 videos have been uploaded to our own YouTube Channel, containing our own and partners' videos. As not all videos are available on YouTube, a complete list of SRI videos can be found at: http://sri.ciifad.cornell.edu/videos/index.html

Partnering with the Agriculture Network Information Center

SRI-Rice websitesite became an official partner site of the Agriculture Network Information Center (AgNIC) in March 2012. AgNIC is coordinated by the US National Agriculture Library. AgNIC is an alliance of members selected as Centers of Excellence. The SRI-Rice website was accepted as a partner website under the Cornell University Mann Library AgNIC partnership. The other three partner websites under Mann Library are: 1) the Conservation Agriculture website, also managed by SRI-Rice (see below), 2) the Geospatial Data of New York State; and 3) the USDA Economics, Statistics, and Market Information System (ESMIS); see http://www.agnic.org/partners/. Official presentations of the SRI-Rice website, as a new partner, were made at both the US Agricultural Information Network (USAIN) conference during April 2012 and the AgNIC annual meeting in May 2012, both in Minneapolis, Minnesota.



Farmers discussing performance of SRI demonstration plot in Mlimba, Morogoro, Tanzania.



Direct Outreach

SRI-Rice team members traveled to 18 countries this past year:

Asia China, India, Indonesia, Malaysia, Taiwan, Thailand

Middle East/North Africa Egypt, Morocco

Africa Benin, Ghana, Kenya, Mali, Tanzania

Latin America and Caribbean: Costa Rica (Cuba: sent presentation)

Others Australia, Switzerland, UK, US

Presentations

The SRI-Rice team gave more than 40 presentations at conferences, workshops, and professional meetings in 16 countries (see Appendix for complete list).

Participation at Conferences and SRI field visits

The team participated in 13 conferences and made SRI field visits in 9 countries (see Appendix for complete list).



Lucy Fisher (fourth from the right) and Norman Uphoff (fifth from left) at the FELCRA training center in Malaysia in July 2012.



Erika Styger (first on right) was invited by the Benin Rice Farmers' Association to conduct a one-day workshop on SRI with over 40 farmer-leaders from Benin and two SRI program leaders from Togo. The workshop was held during Styger's trip to West Africa in January/February 2012 that identified partners for the SRI West Africa Initiative (see page 17).

At Cornell University

We understand the importance of sharing the latest SRI information with the Cornell community: students, visiting scholars, faculty and staff. We teach and participate in seminars and conferences and organize events for visiting SRI scientists and practitioners (see details in Appendix).

The SRI-Rice team

- Organized seminars at Cornell University, with presentations by visiting SRI scholars and practitioners;
- Led a SRI roundtable with Cornell faculty members for visiting scholars from the Sir Ratan Tata Trust of Mumbai, India;
- Co-organized a first meeting to create a Sustainable Land Management group at Cornell.
 with the Conservation Agriculture Program and the EcoAgriculture Program.
- Gave three guest lectures in Cornell classes upon invitation by professors.
- Facilitated and sponsored internships for Cornell students to India and Cuba.

II. Generating and Advancing Knowledge

Publications

The SRI-Rice team published four scientific journal articles, four book chapters, one technical feature for a website, one article for a popular magazine, and contributed to a UNEP position paper for the Rio+20 Summit (see details in Appendix).

Creating an International SRI Research Network

Creating and strengthening of an International SRI Research Network is one of the main long-term projects of SRI-Rice. In order to advance the SRI research agenda, researchers need an efficient web-based network to locate colleagues, discuss research methods, collaborate on studies, learn about grant opportunities, and access the most recent research findings.

After having established the SRI research database (see above), we created the System of Rice Intensification Research Network using the Mendeley software interface. Mendeley is a free software (like a "Facebook for researchers") that allows researchers to connect with each other and share scientific articles. Using this tool, SRI-Rice plans to create by-invitation specialized research groups, where members can discuss specific research interests, share articles among themselves, and devise collaborative research projects.

To date, we have uploaded 381 scientific articles, theses, and other research documents. Over the next few months, we will invite the authors of these research papers to join the group, and form invitation-only groups as described above. Using this platform, we hope to create a vibrant SRI scientific community, look for funding to support this community, and eventually hold one or more global SRI research conferences. http://www.mendeley.com/groups/1178631/system-of-rice-intensification-research-network/



Collaboration with the Conservation Agriculture Program at Cornell

SRI-Rice has strengthened its collaboration with the Conservation Agriculture Program at Cornell University over the past year. Conservation agriculture is an agro-ecological methodology and approach that can complement SRI. Because the SRI methodology focuses on developing organic matter to improve soils, it is more suitable to work with CA principles than the conventional irrigated rice production systems that rely on heavy soil preparation. As sister approaches for an environmentally sustainable and climate-smart agriculture, both SRI and CA strive to harness biological potentials while protecting and improving the natural resource base.

- SRI-Rice staff have been involved since the beginning in setting up the Conservation Agriculture program at Cornell University, and have provided technical guidance and leadership in establishing, updating and maintaining the web page content of the Cornell Conservation Agriculture Global Research and Resources Website (http://conservationagriculture.mannlib.cornell.edu/). This web site communicates relevant research work from around the world and makes it available online.
- SRI-Rice worked with the Conservation Agriculture Program at Cornell to develop a Sustainable Land Management (SLM) Group at Cornell. A faculty roundtable discussion was held in November 2011, followed by a larger meeting in May 2012. Faculty members interested in SLM issues gave their input on creating a group within Cornell to improve knowledge exchange and collaboration under the SLM umbrella.
- During September 2011, SRI-Rice staff attended the fifth World Congress for Conservation
 Agriculture in Brisbane Australia to learn about the most recent developments in CA and make
 contacts with the broader CA community.



Tri-continental SRI field visit in Mwea, Kenya, from left to right: Jakeline Ndiiri, Bancy Mati, Erika Styger, Moses Kareithi, Joseph Nieru, and Shuichi Sato, Secretary of the Japan Association for SRI (J-SRI).

Technical Assistance

During its second year, SRI-Rice received several requests, both for training and for design and evaluation of SRI projects. We responded to three requests that showed a high potential to develop methodologies for training, for scaling up, and for monitoring and evaluation. As a global knowledge hub for SRI with expert staff, access to the resources of Cornell University and to resource persons around the world, SRI-Rice is well-placed to improve the quality of capacity-strengthening approaches and techniques for SRI implementing programs. The three projects were:

- i. Assistance to the Peace Corps in West Africa to develop a SRI training program for West Africa Peace Corps Volunteers under the West Africa Food Security Partnership (Peace Corps/USAID) and in collaboration with Benin's Rice Producer Consultative Council (CCRB). This opportunity was first identified during Erika Styger's trip to West Africa in February 2012. The project entails a three-year iterative approach to SRI training that integrates a strong monitoring and evaluation framework. Training content will be adjusted according to lessons learned in the field, and technical manuals will be developed and updated as necessary. The first training program, which will serve to test the approach, will be held in Benin in mid-September 2012 for about 30 Peace Corps Volunteers and their counterparts from Benin, Togo and Guinea. This will be followed in March 2013 by a larger training for Peace Corps Volunteers along with their counterparts from most of the West African countries where Peace Corps works. Devon Jenkins, former Cornell University student, who was part of the SRI-Rice team in 2012, has been working with Peace Corps in Benin since June 2012 and will help to organize and implement the first SRI training.
- ii. Assist with the technical analysis for scaling up SRI with mechanization in Bunthe District, Sierra Leone for the UK-based West African Rice Company. SRI-Rice was approached by this firm to help identify the SRI potential for their sustainable agriculture program in Sierra Leone. We were able to identify technical experts within Africa to undertake a first diagnostic study. This project plans to develop mechanized SRI that can go to a larger scale, while benefiting local farmers. SRI-Rice is an informal advisor in designing the project, which could become an instructive pilot program for SRI mechanization.
- iii. **Technical assistance for a SRI program in Tanzania:** The country is a major rice producer in East Africa, with a long tradition in rice cultivation. SRI was introduced in 2009 by Kilombero Plantations Ltd (KPL), which is now working with the five-year, USAID-funded NAFAKA project in the Morogoro region of Tanzania. During 2012, more then 100 SRI demonstration plots were installed by the project, mostly for rainfed rice. Erika Styger was invited in May 2012 to assess the implementation of this substantial program and provide technical recommendations to scale up SRI to reach more then 5000 small-scale farmers. SRI-Rice attributes great importance to this project, which, if successfully implemented, can have a wide spillover effect to other regions in Tanzania and to the Eastern and Southern African region.





Field visits to SRI demonstration plots and farmers' SRI fields in Morogoro District in Tanzania, in May 2012

III. Supporting and Developing Networks

In addition to working with seven national Asian SRI Networks (Indonesia, India, Nepal, Philippines, Japan, Bangladesh, Sri Lanka), SRI-Rice started two major regional initiatives this year: the SRI Latin America and Caribbean Initiative, and the SRI West Africa Initiative.

We believe that the most efficient way to scale up SRI is through regional networks. Within a regional framework, stakeholders can share experience and learn from each other, taking full ownership of the network and its activities, training each other, helping each other find solutions to technical questions, and helping with each others' activities. This past year we saw good examples of this such as between Benin and Togo, Japan and Taiwan, Indonesia and Malaysia, Indonesia and Solomon Islands, and Dominican Republic and Costa Rica. Developing a regional network requires multiple partners, and the speed and nature of its development depends very much on the time and effort that partners are able to put into it. How well a given network may function is difficult to predict, but SRI-Rice can help to support these networks by providing access to knowledge, help with networking, and methodological and technical support for scaling up.

SRI Latin America and Caribbean (LAC) Initiative

The First International Workshop on the System of Rice Intensification (SRI) in Latin America and the Caribbean was held at EARTH University in Costa Rica on October 31 and November 1, 2011. Jointly organized by SRI-Rice (Cornell University), EARTH University (Costa Rica), and Jim Carrey's Better U Foundation (Los Angeles), 27 participants from 10 countries -- Bolivia, Colombia, Costa Rica, Cuba, the Dominican Republic, Nicaragua, Mexico, Panama, Trinidad and Tobago, and the USA -- met to assess what had been accomplished to date using SRI methods in the region.

The objectives of the workshop were to:

- i) Bring together for the first time SRI practitioners and researchers from Latin American countries and the Caribbean,
- ii) Assess both achievements to date and future opportunities for using the System of Rice Intensification in Latin America and the Caribbean;
- iii) Consider potentials and constraints for improving rice production practices in the region; and
- iv) Develop plans to advance SRI in Latin America and the Caribbean.

Cuba was the first country in LAC to obtain results from the application of the SRI methodology (2001), followed by Peru (2003). In both countries, SRI yields of 9-11 t/ha were obtained compared to 6-6.5 t/ha under conventional practices. Satisfactory results with yields often more than 8 t/ha were also gained in Brazil (2007), Costa Rica, Ecuador (2008), Panama and Haiti (2010), and Colombia and the Dominican Republic (2011). (http://sririce.org/countries/index.html)



Workshop participants witnessing the transplanting of the first SRI plot for EARTH University: from left to right: John Jolliffe, Ronald Cardenal, Panfilo Tabora, Oscar Montero, Manuel Sanchez, Jorge Acosta, Andres Samayoa.

Participants found that SRI can benefit farmers from across the spectrum: small-scale farmers who cannot afford costly inputs or who work on poor land; medium-scale farmers who seek higher yields and improved seed quality by using agro-ecological practices; and large-scale farmers who look for more efficient mechanisms to produce healthy crops and reduce costs. The workshop concluded with a pledge to build a network in Latin America to exchange ideas and best practices, train farmers, undertake further research in the field, develop new projects, and promote innovations.

SRI-Rice followed up on the workshop by:

- Creating the SRI LAC online community https://groups.google.com/forum/#!forum/sica-america-latina, which allows members to communicate with each other and share information.
- Developing a program with the Inter-American Institute for Cooperation on Agriculture (IICA) for a
 comprehensive strategy to reach IICA's 34 member states. SRI-Rice has recorded a SRI
 presentation for Latin America, which IICA is sending to all of its country offices for viewing. A
 follow-up video conference is planned to discuss and address any questions. An implementation
 plan for SRI for IICA countries should be drawn up following the videoconference.
- More recently, we have begun to discuss an economic evaluation of SRI, with the manager of EARTH University's rice production farm in La Flor, Costa Rica. The evaluation will integrate an assessment of the mechanization aspect for larger-scale SRI farming.



Participants at the First International Workshop on the System of Rice Intensification (SRI) in Latin America and the Caribbean

SRI West Africa Initiative

Styger's three-country visit to Mali, Ghana and Benin in Jan/Feb 2012 identified partners and organizations interested in scaling up SRI across West Africa. A flexible approach will allow organizations with different profiles to complement each other.

The World Bank-funded West Africa Agricultural Productivity Program (WAAPP), a sub-regional program including 13 members states of the Economic Community of West African States (ECOWAS) and coordinated by the Central African Council for Agricultural Research (WECARD/CORAF; http://www.coraf.org/English/English.html), was very receptive during the three-country visit. In a follow-up meeting in Washington in late February 2012 with staff of WAAPP, CORAF and the World Bank, it was decided to hold a first SRI West Africa Workshop to formally agree on the formation of a SRI West Africa Network. The WAAPP Regional Center of Excellence on Rice, based in Mali, was selected to organize this first workshop together with SRI-Rice and supported by CORAF, to be held in late July 2012.

Expected results from the workshop are

- Identification of main research areas and strategies for improved SRI introduction and implementa tion in the different ECOWAS countries.
- A defined road map for setting up a West African Regional Network that includes a formal platform and facility for knowledge exchange.
- Establishment of a task force to create a SRI West Africa Network. A concept note for funding the network will be submitted to CORAF/WECARD under an existing competitive fund for regional projects under WAAPP.



The original Mali SRI team from Africare and the Ministry of Agriculture, who introduced SRI to the Timbuktu region under a 2008 grant from Jim Carrey's Better U Foundation, had a reunion in Bamako, January 2012.

The Internet platform SRI West African Network developed by SRI-Rice now has 58 members: http://sriwestafrica.ning.com/. We expect that with the launching of the official Network, this Internet platform will gain more popularity among stakeholders across West Africa.



Focus areas for SRI- Rice in Year Three

- Maintain and improve quality of our knowledge products through SRI-Rice Online
- Develop and strengthen the SRI West Africa Initiative and SRI Latin America and Caribbean Initiative, and improve support to networks in Asia
- Develop the International SRI Research Network
- Provide research opportunities and internships for Cornell students, and take advantage of teaching opportunities at Cornell University.
- Offer technical assistance and capacity strengthening, both for the regional networks and for others on demand.
- Extend our reach by integrating SRI with other agro-ecological approaches (Conservation Agri culture, Sustainable Land Management Forum at Cornell) and with other crops for the System of Crop Intensification (SCI)



Her first Rice field ever! The womens' group of the village of Findoukaina in Timbuktu owned a moto-pump for pumping irrigation water, which they rented out to men for growing rice, which is traditionally a mens' crop. Having the chance to learn the SRI practices, the entire women's group started growing rice - unheard of before in the Timbuktu region.

Appendix: SRI-Rice Activity Report, July 1st 2011 to June 30, 2012

Presentations

Uphoff.

July 2 Malaysia: FELCRA Training Center, presentation to participants in the 3rd SRI training program assisted by NOSC/Indonesia, Sebarang Perak. Norman Uphoff and Lucy Fisher. **July 5-6** Malaysia: 1st National SRI Conference, keynote presentation; creation of SRI-Mas, National SRI Network for Malaysia, Putra Jaya. Norman Uphoff and Lucy Fisher. July 8 Indonesia: Universitas Padjadjaran, seminar presentation on SRI to faculty and students, Bandung, Norman Uphoff. July 11 Indonesia: Sampoerna Entrepreneurship Training Center, presentation on SRI; launching of a SRI book written in Bahasa Indonesia, Malang, Norman Uphoff. Indonesia: Ministry of Agriculture, presentation and discussion on SRI with staff of three July 12 departments, Jakarta. Norman Uphoff. July 10 Thailand: Presentation on SRI to three foundation directors: Ms.Supa Yaimuang, Sustainable Agriculture Foundation; Mr. Witoon Lianchamroon, BioThai; Mr.Vitoon R. Panyakul, Green Net, Bangkok. Lucy Fisher. July 19 USA: Soil and Water Conservation Society, presentation on SRI at panel at annual national meeting, Washington, DC. Norman Uphoff. China: International Workshop on Sustainable Watershed Management, presentation on August 1 SRI, China Normal University, Beijing. Norman Uphoff. China: Sichuan Academy of Agricultural Sciences, presentation at SRI workshop with August 5 researchers and staff, Chengdu. Norman Uphoff. August 6 USA: Second Annual Northeast USA Rice Conference, presentation at Akaogi Farm in Westminster, Vermont. Erika Styger. http://www.ctl1.com/publicaccess/nerice/nerice-20110806-eng-es/index.htm# October 4 USA: Cornell University, Conservation Agriculture electronic outreach/website overview presented at faculty roundtable on Conservation Agriculture and its Role in Soil Health, Sustainable Food Production and Food Security (Atkinson Center for a Sustainable Future). Lucy Fisher.

October 25-26 Taiwan: China Cultural University, Taipei, and Department of Post-Modern Agriculture,

Ming Dao University, Taiching, presentations on SRI to faculty and students. Norman

Presentations

October 27-28	Taiwan: 11th International Meeting of the Paddy and Water Environment Engineering Society, keynote presentation, Taipei. Norman Uphoff.
October 31	Costa Rica: First International Workshop on SRI for Latin America and the Caribbean, held at the EARTH University campus in Costa Rica in Limon. Workshop facilitation and presentation on: i) SRI: global overview, and ii) Slide and video show on mechanization. Erika Styger and Matthew Fisher-Post.
November 2nd	Costa Rica: EARTH University, presentation on SRI to EARTH University students. Erika Styger.
November 4	Costa Rica: Ministry of Agriculture, presentation on SRI, to the Minister of Agriculture Dr Gloria Abraham, to Ministry staff members and invited University and national researchers, organized by Miguel Gomez, RUTA. Erika Styger.
November 9	USA: Cornell University, CIIFAD Forum presentation on 'SRI 2.0: How is the System of Rice Intensification evolving and what are we learning?' By Erika Styger. http://ciifad.cornell.edu/downloads/Styger.pdf
December 5	USA: Agriculture Network Information Center (AgNIC) meeting, Presentation on SRI Group communications initiative, Washington, D.C. Lucy Fisher.
December 13	Cuba: Powerpoint presentation prepared for and sent to Workshop on the Efficient Use of Water and Machinery for Rice Production. Erika Styger. http://sri.ciifad.cornell.edu/countries/cuba/CubaWorkshop_Dec2011.pdf
January 6	India: Jharkhand State SRI Workshop, keynote presentation at first state-wide meeting, attended by the Chief Minister, Ranchi. Norman Uphoff.
January 8	India: Orissa State SRI Learning Alliance, presentation on SRI, Xavier Institute of Management, Bhubaneswar. Norman Uphoff.
January 9	India: Centenary Conference on Rice Science in India, lead paper presentation on SRI, Tamil Nadu Agricultural University, Coimbatore. Norman Uphoff.
January 13	India: National SRI Roundtable, organized by National SRI Consortium at Centre for Social Development, New Delhi; presentation on history and overview of SRI in India. Norman Uphoff.

Presentations

February 1	Benin: One-day SRI Workshop organized by Benin Rice Farmers Association (Conseil de Concertation des Riziculteurs du Benin, CCRB), Adjohoun, presentation and discussion on SRI methodology and its application around the world. Erika Styger
February 6	USA: Cornell University, Presentation on SRI-Rice website and social media to SRI meeting with Visiting Fellows from TATA Trust India, Ithaca New York. Lucy Fisher.
February 20	USA: Ohrstrom Foundation, presentation on SRI, Upperville, Virginia. Erika Styger
March 7-9	Morocco: Global Food Security Forum, Rabat, organized by OCP; participated in panel forum on agricultural technology, and in closing plenary's panel of experts. Norman Uphoff.
March 8	Latin America: Inter-American Institute for Cooperation in Agriculture (IICA), presentation recorded for distribution to IICA country offices throughout Latin America and Caribbean, to be followed up with a video conference. Erika Styger.
March 20	Switzerland: Syngenta Foundation for Sustainable Agriculture, presentation on SRI at headquarters in Basel. Erika Styger.
March 22-25	UK: Participation in Planet Under Pressure International Symposium, London, with poster presentations on SRI and conservation agriculture. Norman Uphoff and Erika Styger.
April 28	USA: US Agricultural Information Network (USAIN) annual meeting, Presentation on SRI-Rice site as a new partner site for AgNIC (Agriculture Network Information Center), Minneapolis, Minnesota. Mary Ochs.
April 22-25	Egypt: 2012 BioVision Biennial International Conference, Alexandria, organized by Biblioteca Alexandrina; presentations on panels on agricultural production and on seed banks. Norman Uphoff.
May 3	USA: Agriculture Network Information Center (AgNIC) Annual Meeting, presentation on SRI-Rice website, Minneapolis, Minnesota. Lucy Fisher.
May 15	Tanzania: One-day SRI Training for staff of Tanzania Staples Value Chain project (NAFAKA), a USAID-funded program, Morogoro. Erika Styger.
May 23	Kenya: Jomo Kenyatta University Agriculture and Technology (JKUAT), presentation on SRI to faculty and students, Juja campus. Erika Styger.
June 27	USA/the Netherlands: presentation on SRI to the Alliance of Women Scientists for a Better World, skype presentation for a conference in the Netherlands. Erika Styger.

Teaching & Meetings Organized

Teaching

- September 14 CSS/IA 4030: Traditional Agriculture in Developing Countries: Lecture on slash-and-burn agriculture (Prof. Hobbs) by Erika Styger.
- October 17 DevSoc 3240: Environment and Society: Lecture on SRI and agroecology (Prof. Geisler) by Norman Uphoff.
- October 25 CSS 4140: Tropical Cropping Systems: Lecture on slash-and-burn agriculture and options for sustainable intensification (Prof. Hobbs) by Erika Styger.

Meetings Organized at Cornell

- October 4 Faculty roundtable on Conservation Agriculture and its Role in Soil Health, Sustainable Food Production and Food Security; Atkinson Center sponsored lunch; Co-organized by SRI-Rice and Conservation Agriculture Project at Cornell. Lucy Fisher.
- October 11 SRI Group Seminar: Winifred Fitzgerald, GSRI, Antananarivo: SRI in Madagascar. Lucy Fisher.
- February 9 SRI Round-table for visiting fellows from the Sir Ratan Tata Trust, India: Panel members: John Duxbury (Cropping systems perspective), Janice Thies (SRI and soil biology, research findings), Peter Hobbs (CA/SRI interface), Jeff Milder (EcoAg/SRI interface), Kazushi Takahashi (Adoption research in Indonesia), Norman Uphoff (India overview), and Erika Styger (SRI conceptual overview with other agro-ecological approaches). Erika Styger.
- December 6 SRI Group Seminar: Dr. Amod Thakur, Water Management Center, ICAR, Bhubaneswar: The Science behind SRI. Lucy Fisher.
- Feb 15 SRI Group Seminar: Pratyaya Jagannath and Pratyush Singh: Pradan's Experiences with the System of Rice Intensification, and screening of the award-winning film: Ek Ropa Dhan (A Single Rice Seedling). Lucy Fisher.
- May 7 Sustainable Land Management (SLM) Meeting for invited faculty member to discuss the creation of a SLM Forum on Campus, co-organized by Conservation Agriculture Project, SRI-Rice, and the Eco-Agriculture Group. Lucy Fisher and Erika Styger.
- June 5 SRI Group Seminar: Prof. Joan Mencher, cultural anthropologist, City University of New York, Indian Agriculture and SRI. Lucy Fisher.

International Meetings Organized

October 31-November 1 Costa Rica: First International Workshop on SRI for Latin America and the Caribbean, held at the EARTH University campus in Costa Rica in Limon; Co-organized as a joint effort by SRI-Rice, EARTH University, and Jim Carrey's Better U Foundation. Erika Styger.

Publications

Publications

- Styger, Erika. "A new Green Revolution: How the System of Rice Intensification is quietly re-making agriculture in Asia, Africa and Latin America." PORT magazine (forthcoming)
- Styger, Erika. "Increasing rice yields and saving water: Lessons for policy and practice The System of Rice Intensification." CTA (Technical Centre for Agriculture and Rural Development) website (forthcoming).
- Styger, Erika. "High wheat yields with SWI." Appropriate Technology, 2011, 38 (3), 14-17.
- Uphoff, Norman. "Agroecological approaches to help 'climate-proof' agriculture while raising productivity in the 21st century." Sustaining Soil Productivity in Response to Climate Change, eds. T. Sauer, J. Norman, K. Sivakumar, 87-102, Wiley-Blackwell, 2011
- Uphoff, Norman. "Agro-ecological opportunities for raising crop production with existing varieties and enhancement of soil systems." Chapter on SRI for Handbook on Food, Politics and Society, ed. R. J. Herring, Oxford University Press, in progress.
- Uphoff, Norman. "Comment to 'The System of Rice Intensification: Time for an Empirical Turn." NJAS: Wageningen Journal of the Life Sciences, 2012.
- Uphoff, Norman. Sub-section and box on SRI for UNEP position paper on food security for the Rio + 20 international conference. Co-author of chapter on 'Strategies for Sustainable Food Production Systems,' Avoiding the Next Famine, UNEP, June 2012.
- Uphoff, Norman. "We are not alone: Messages from inner space," commentary for 10th anniversary publication of International Journal of Agricultural Sustainability." International Journal of Agricultural Sustainability, 2012.
- Uphoff, Norman and A. Mishra. "Morphological and physiological responses of rice roots and shoots to varying water regimes and soil microbial densities." Archives of Agronomy and Soil Sciences, 2012.
- Uphoff, Norman, et. Al. "Soil fertility as a contingent rather than inherent characteristic: Considering the contributions of crop-symbiotic soil microbiota." Chapter for 2012 Yearbook on Advances in Soil Science, eds. R. Lal and B. Steward, Taylor and Francis, 2012, in press.

Conferences

Conferences Participation / Networking

- July 5-6 Malaysia: First National Conference on System of Rice Intensification, Putra Jaya [launching of new national SRI network for Malaysia]. Lucy Fisher and Norman Uphoff.
- July 17 USA: Soil and Water Conservation Society, annual national meeting, Washington, DC [panel with USAID and other representatives]. Norman Uphoff.
- August 1-4 China: International workshop on sustainable watershed management, organized by China Normal University, Southwest China University and Cornell University, Beijing. Norman Uphoff.
- August 6 USA: 2nd Annual Northeast USA Rice Conference, Vermont. Erika Styger.
- September 26-29 Australia: World Congress on Conservation Agriculture, Brisbane [networking to link SRI with Conservation Agriculture]. Lucy Fisher and Erika Styger.
- October 21-November 1 Costa Rica: First International Workshop on SRI for Latin America and the Caribbean, EARTH University campus, Limon [establishing SRI/SICA network for Latin American and Caribbean]. Erika Styger and Matthew Fisher-Post.
- October 27-28 Taiwan: 11th meeting of the International Society for Paddy and Water Environment Engineering Society, Taipei [rec'd 2011 Reviewer Award with Amir Kassam for editing of special issue on SRI of Paddy and Water Environment journal]. Norman Uphoff.
- November 4-6 USA: Water Scarcity and Policy in the ME and Mediterranean Conference, Cornell University. Lucy Fisher.
- January 9-12 India: Centenary Conference on Rice Science in India, Tamil Nadu Agricultural University, Coimbatore [interaction with leaders in rice science community of India]. Norman Uphoff.
- February 21-23 USA: Rural Week, World Bank, Washington, DC [meeting with West African research and development leaders to develop West Africa initiative, decided to co-organize 1st West African SRI workshop in July 2012]. Erika Styger.
- March 7-9 Morocco: Global Food Security Forum, Rabat [discussions with Dr. M.S. Swaminathan and others on SRI contributions to food security]. Norman Uphoff.
- March 26-29 UK: Planet Under Pressure international Conference, London [networking with Flooded Cellar Productions videographers for training video on SRI for central and southern Africa]. Norman Uphoff and Erika Styger.
- April 26-29 Egypt: Biovision 2012 international conference, Alexandria [networking with biotech specialists to build bridges for SRI acceptance, and also with the President of IFAD. Norman Uphoff.
- May 3 USA: Agriculture Network Information Center (AgNIC) Annual Meeting, presentation on SRI-Rice website, Minneapolis, Minnesota. Lucy Fisher.

Meeting Participation

June 30 Thailand: Meeting with Dr. Prabhat Kumar, AIT, Bangkok. Lucy Fisher. July 7 Malaysia: Meeting with the Undersecretary for Rice and Rice Industry, Putra Jaya; also with the Director of the Federal Land Consolidation and Rehabilitation Authority (FELCRA), Kuala Lumpur. Norman Uphoff and Lucy Fisher. July 11 Thailand: Meeting with Dr. Lackchai and Khun Benjamas (from TEI) at Abha Mishra's SRI project, Ratchaburi Province. Lucy Fisher. Thailand: Meeting with Mr. Daycha Siripatra, Founder, Khao Kwan Foundation, Suphunburi July 12 Province. Lucy Fisher. July 13 Thailand: Meeting with Mr. Klaus Prinz, Mr. Chomchuan Boonrahong, Director of Northern Thailand's Institute for Sustainable Agriculture Community (ISAC), Chiang Mai Province. Lucy Fisher. Thailand: Meeting with Mr. Samruay Phadphon: Director of the Love Nan Foundation and July 15 Director of Joko Center/Nan province. Nan Province. Lucy Fisher. Thailand: Meeting with Surin Cooperative farmers, Surin Province. Lucy Fisher. July 16 Oct 31-Nov 3 Costa Rica: Meetings with EARTH University President J. Zaglul and Provost Daniel Sherrard; Miguel Gomez, RUTA; Dr. Gloria Abraham, Minister of Agriculture; and Jim French, Director of Programs, and Federico Sancho, Director of Communications, Inter-American Institute for Cooperation on Agriculture (IICA), by Erika Styger. October 26-27 Taiwan: Meetings with the President of Ming, Dao University in Taichung and with the Dean of Agriculture, National Taiwan University, Taipei. Norman Uphoff. November 3 USA: Meetings with Karen Hansen, senior staff member of Institute for Agriculture and Trade Policy, Washington, DC on SRI/agroecology; and with Dr. Mei Xie, World Bank Institute, on SRI promotion. Norman Uphoff. November 28 USA: Meeting at Cornell University with Dr. Robert Zeigler, Director-General, International

Rice Research Institute, Philippines. Erika Styger and Norman Uphoff.

Dec 12-15 USA: Meetings in Washington, DC – by Erika Styger.

Africare: Darius Mans (President), Kwasi Ampofo, Katelyn Brewer, Binta Cisse

USAID: John Becker

World Bank, Agriculture and Rural Development Department: Samihana Thapa,

Graham Dixie (Agribusiness) Riika Rajalahti (Research and Knowledge), Ademola Braimoh

(Climate Change), Ajai Nair (Finance), Juergen Voegele (Director, ARD), Dipti Thapa

(Climate Change)

World Bank, Africa Region: Karen Brooks (Director), Michael Morris and Christian Berger,

Steven Danjo

World Bank, Latin America Region: Willem Janssen, Erick Fernandes

World Bank, South Asia Region: Ram Janakiram, Melissa Williams, Madhu Gautam

World Bank Institute: Mei Xie World Vision: Carlos Piedrasante

January 12 India: Meeting with leadership and staff of PRADAN (NGO partner), New Delhi. Norman Uphoff.

Jan 15-Feb 4 Mali, Ghana and Benin – by Erika Styger.

Africare: Ahmed Ngame (Country director for Mali and Burkina Faso), Kwasi Ampofo

(Agriculture advisor, Africare)

AfricaRice, Benin: Marco Wopereis (Deputy Director-General)

AGRA, Mali: Frank Attere

APCAM, Mali: SirimanSakho (for PAPAM project)

ATP Regional project, (Burkina) met in Benin: Kouko Zotoglo

CARE Ghana: David Sumbo, Godfrey Mitti, Uwe Korus

Conseil Economique et Social, Benin: Prof. Michel Boko (Climate Change, winner of Nobel

Peace Price)

CRS Ghana: Kris Ozar and Cecile Osei, Ghana (CSIR): Emma MamaaEntsua-Mensah,

Deputy Director-General

FARA, Accra: R. Tabo, Wale Adekunie, Emmanuel Taube, Myra Wopereis, Maurice Lorka,

Monty Jones

IER Mali: GaoussouTraore (WAAPP at IER, Mali), Minamba Bagayoko

IICEM project, Mali: Djiguiba Kouyate

IWMI , Accra: Regassa Namara, head of West Africa program, T. Williams, head for Africa

program of IWMI

Malo Traders, Mali: Mohammed Ali Niang, CEO, and Salif Niang

MDG Center West and Central Africa, Mali: Amadou Niang, Coordinator, Kaya Bokary,

Technical Deputy and Agriculture Specialist, Mali, West Africa

Ministry of Agriculture, National Director, Mali: Daniel Kelema

Oxfam Mali: Eric Mamboue, AboubacarTraore – Mali

PADA and WAAPP at PROCAD, Benin: Janvier Capo-Chichi, Director, Cotonou

Peace Corps: Kris Hoffer (Ghana) and Stephanie Tack (Benin)

Savannah Agriculture Research Institute (SARI), Ghana: Steven Nutsugah, Director/

Ghana

Syngenta Foundation for Sustainable Development, Mali:Omar Niangado, Regional coordinator for West Africa,

UNDP- Small Grants Program (SGP) Mali: Oumar Kaba; Ghana: Georg Ortsin; Benin: Mathieu Houinato

USAID West Africa, Accra: Alex Newton, Robert Buzzard (Climate Change West Africa Team Leader)

USAID Ghana, Accra: John Mullenax

World Bank: Taoufiq Bennouna (Environment Mali), NicaiseEhoue (PAPAM project Mali), Osman Gyasi (WAAPP Ghana, and also Liberia, Sierra Leone), AbdoulayeToure (WAAPP

coordinator, Ghana), Erick Abiassi (WAAPP, Benin) World Food Program, Mali: Isabelle Mballa, Coordinator

Feb 20 USA: Upperville, Virginia – by Erika Styger.

Clarke, Mark and George Ohrstrom (Ohrstrom Family Foundation), Betsy Dietel (Dietel Partners) John Bridgeland (Civic Enterprises)

Barry Hamilton (Piedmont Environmental Council)

Ken Garrett (National Geographics)

Feb 21-23 USA: Washington DC – by Erika Styger.

CORAF/WECARD: Dr. Paco Sereme (Research Director), Harold Roy-Macauly (Director of

Programs)

WAAPP, Senegal: Oumar Sene (Coordinator) WAAPP, Mali: GaoussouTraore (Coordinator)

World Bank: AbdoulayeToure, Jean Claude Balcet, Erick Fernandes, Ajai Nair, Samjhana

Thapa, Eja Pehu

March 20 Switzerland: Syngenta Foundation for Sustainable Agriculture, Basel – by Erika Styger.

Marco Ferroni, CEO

Mike Robinson, Chief Scientific Adviser Ian Baker, Head Agricultural Partnerships Robert Berlin, Agribusiness manager

Shachi Sharma: Sygenta Agro AG: Head of Business Development AME

March 22 Switzerland: Swiss Development Corporation, Bern – by Erika Styger.

Yves Guinand: Head of Global Food Security Program

Elisabeth von Capeller: Head of South Asia

March 27 UK, London – by Erika Styger.

Dan Crowe, Editor, PORT Magazine ZiadTassabehji, CEO, Windcliff Ltd

March 28 UK, London – by Erika Styger and Norman Uphoff.

Declan McCormack, Filmmaker, Flooded Cellar Productions

Sue Price, Filmmaker, Flooded Cellar Productions

April 4 USA, Cornell University: Julie Howard, Chief Scientist, Bureau for Food Security, Senior

Advisor to the Adminstrator, USAID. Erika Styger.

NAFAKA project, Morogoro: Martin Mason, Joe Tindwa, Rueben Mfanga, Jonathan Mpuya

NAFAKA project, Dar es Salaam: Katrin Plesner

Kilombero Plantations Limited (KPL): Graham Anderson, David Lukindo

USAID: Eric Johnson

Ministry of Agriculture: Hussain A. Mansoor SERA project: Donals Mitchell [Donald Mitchell]

Aga Khan Foundation: Patrick Sayer

May 8-19 Tanzania, Morogoro and Dar es Salaam NAFAKA project visit – by Erika Styger.

May 20-23 Kenya, Nairobi, Jua and Mwea – by Erika Styger.

Jomo Kenyatta University: Prof. Bancy Mati, Esther Murugi Kahangi, Patrick G. Home

World Agroforestry Centre (ICRAF): August Temu, Frank Place

Nippon Koei: Shuichi Sato

Ministry of Agriculture: Josphat Gathiru Muhunyu, Eng. J. A. M. Nkanya

National Irrigation Board (NIB): Daniel Atula, Eng. Daniel K. Barasa, Raphael Wanjogu. African Institute for Capacity Development (AICAD): Andrew B. Gidamis, Philip Kutima,

Benson Odongo

SRI farmer: Moses Kareithi SRI technician: Joseph Njeru

June 4- July 1 Internet: Agricultural Innovation Systems and Family Farming, An FAO E-mail Conference. Lucy Fisher.



Moses Kareithi, the 1st SRI farmer in Kenya, in the SRI field of a fellow farmer, Mwea, Kenya.

Field Visits

SRI field visits

Date	Field Visit
July 3	Malaysia: SRI farmers in Lintang Valley, Kedah State. Norman Uphoff and Lucy Fisher.
July 4	Malaysia: SRI farmers and trainers in Selangor State; visited farmer enterprise making bio fertilizers. Norman Uphoff and Lucy Fisher.
July 8	Malaysia: SRI farmers and trainers in Kelantan State. Lucy Fisher.
July 9-17	Thailand: farmers in Surin, Chiang Mai, Ubon Ratchathani, Ratchaburi and Nan Provinces. Lucy Fisher
July 10	Indonesia: SRI farmers in Sri Gunting, East Java Province. Norman Uphoff.
August 6	China: SRI farmers in village north of Chengdu, Sichuan Province. Norman Uphoff.
October 24	Taiwan: SRI farmers and evaluators in Hou Bi village. Norman Uphoff.
November	Costa Rica: EARTH University campus, planting 1st SRI upland field. Erika Styger.
January 4	India: visit to KGVK (NGO) on SRI dissemination and production of SRI implements, Rukka, Jharkhand State. Norman Uphoff.
January 5	India: morning field visit to tribal Sonapur village being assisted with SRI by PRADAN; and afternoon field visit to Ormanjhi village assisted in using SRI and SWI by SPWD, both in Jharkhand State. Norman Uphoff.
January 10	India: Thumbal village and meeting with the Thumbal SRI Farmers Association, for its 3rd anniversary commemoration, Salem District, Tamil Nadu State. Norman Uphoff.
February	Benin: SRI field visits and farmer visits in Adjhoun, Benin. Erika Styger.
May	Tanzania: NAFAKA project with demonstration plots and SRI fields and visit with farmers, Kilombero district, Morogoro region. Erika Styger.
May 22	Kenya: Mwea Irrigation scheme, visits to SRI fields and with farmers. Erika Styger.

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