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Maureen Mecozzi

11 November 2015

34th International Vegetable Training Course

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INTERNATIONAL ASSOCIATION FOR THE PLANT PROTECTION SCIENCES

IAPPS



IAPPS NEWSLETTER

Number XI

November, 2011

HIGHLIGHTS: XVII INTERNATIONAL PLANT PROTECTION CONFERENCE, HONOLULU, HAWAII

IAPPS opening ceremony and IPPAD awards, August 7, 2011 On Sunday August 7, 2011, at 9h00 the IAPPS opening and IPPAD awards ceremony took place at



the Hawaii International Convention Center in Honolulu, Hawaii, IAPPS President Prof. Geoff Norton welcomed a crowded meeting hall which was filled with over 160 participants. During his welcome address, Dr Norton reminded participants that the International Plant Protection Congress, which is held every 4 years, is strategically timed to run together with the conference of a local plant protection organisation. In this case, the Congress is a joint effort between IAPPS and the American

Phytopathological Society (APS). This collaboration provides mutual benefits, the involvement of IAPPS increasing the number of international participants and providing a broader perspective of plant protection.



IAPPS Secretary General Prof 'Short' Heinrichs provided details of the contributions made to plant protection by the eight IPPAD awardees. The awards, a plaque of appreciation, were presented by the IAPPS President, and the recipients were given the opportunity to make a few remarks. Some of the individual awardees - all eminent scientists in their respective fields - are shown in the group picture, together

with those receiving awards on behalf of awardees not present. Details of the 2011 IPPAD

CGIAR SP-IPM ...innovative solutions for crop protection

Technical **Innovation Brief** No. 13, August 2011

Phosphorous acid salt: a promising chemical to control tomato bacterial wilt C-H. Lin, J-F. Wang

mato bacterial wilt

me disease that limits tomato production in the new wide host range including many weed species and can be disseminated via contaminated water, infected propagation materials, and the movement of humans or machinery. Once the pathogen is introduced into a field it is difficult to eradicate. Except for chemical fumigants, no commercial pesticides are available for the control of this disease. Host plant

resistance has been the major management strategy. Resistance sources have been identified and varieties with different levels of resistance have been developed. AVRDC has been the main institution developing and distributing resistant germplasm. However, resistance can be locationspecific and strain-specific. Thus, integrating other practices with host resistance is necessary to manage the disease successfully. Components such as soil amendments and resistant rootstocks have been studied and applied by farmers (Lin et al. 2008). Recent studies have shown that phosphorous acid salts (PAS) could be promising chemicals for inclusion in integrated packages to manage tomato hacterial wilt



Tomato plants display wilting symptoms caused by R. solanacearum. – C-H. Liu

Phosphorous acid salts

CGIAR Systemwide Program on Integrated Pest Management (SP-IPM) is a global partnership that draws together the diverse IPM research, knowledge and expertise of the international agricultural research centers and their partners to build synergies in research outcomes and impacts, and to respond more effectively to the needs of farmers in developing countries.

SP-IPM Technical Innovation Briefs present, in short, IPM research findings and

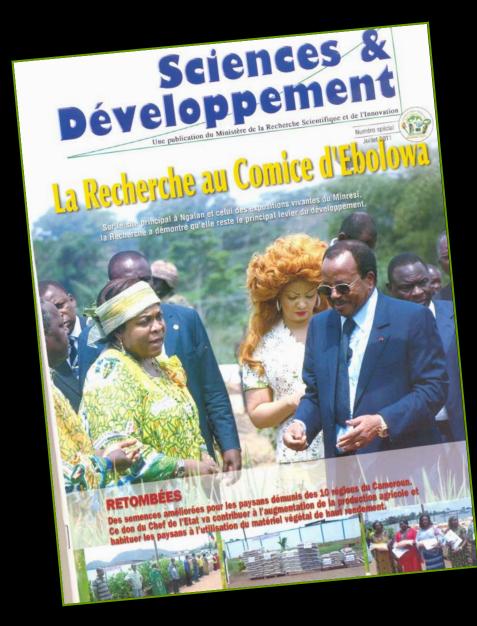
Phosphorous acid and its ammonium, sodium, and potassium salts and mono- and di-potassium salts are categorized as biopesticides by the US Environmental Protection Agency (http://www.epa.gov/pesticides/biopesticides/). They have low toxicity in the environment and are best known for their high efficacy in controlling diseases caused by oomycetes such as Phytophthora, Plasmopara, and Pythium (Ann 2001). The use of PAS to control bacterial diseases was reported only recently. Norman and others (2006)



reported that drenching with PAS solution could protect geranium plants from infection by R. solanacearum. Drenching was also effective in controlling tomato bacterial spot in greenhouse and field experiments (Wen et al. 2009). The control mechanisms against oomycete diseases have been shown by direct actions, including the inhibition of mycelial growth, alteration or reduction of membrane metabolism, and phosphorylation reactions in the pathogen, and by indirect actions, including the stimulation of plant defensive responses (Grant et al. 1990: Guest and Romneix 1990)

government ministries, NGOs, other institutes

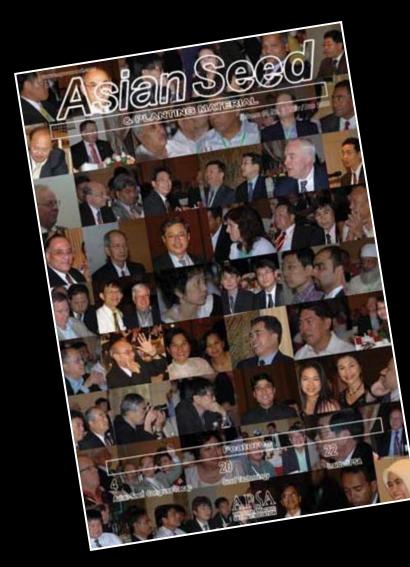
partners



Seed Marketing Specialists talk up AVRDC in Cameroon with the Ministry for Scientific Research and Innovation

Thanks, Takemore!

Asian Seed & Planting Materials



Peter Hanson, Shu-fen Lu, Chee-wee Tan

Results of the 2010 Spring Preliminary Yield Trial of AVRDC F6 Tomato Lines

Publisher: Asia & Pacific Seed Association

university magazines & websites

Capturing Conflict Managementer Lanery Address of participants Managementer Lanery Managementer Managementer



...universities and colleges *love* to promote how successful their alumni are!

your embassy or trade associations, institutes, etc.



Internationale Gemüseforschung im Dienste der Entwicklungszusammenarbeit

Vor 40 jahren wurde in der Ortschaft Shanhus bei Tainan in Taiwan das Vor 40 Jahren wurde in der Ortschaft Shanhus bei Tainan in Taiwan das "Akim Vegetable Research und Development Center (WRDC)" gemeinsam von der Arise Development Burk seine Am Besternenn Lineer Scielunger Asian Vegetable Relearan und Development Center (AYKUL) gemeinsam von der Asian Development Bank sowie den Regierungen Japans Sadkoreas Thaitands südviernams, der UKA und den Pulineinen als internationelier der Asian Development Bank sowie den Regierungen Japans. Südkoreas. Thaliands, Südvietnams, der USA und den Philippinen als internationales.

remeinsutiges Agrarforschungsinstitut gegründet.

Zeisetung war ein Genitselorschungsnetzwerk für Südostatien zur Zielsetzung war ein Genüssforschungsnetzwerk für Sudostasien zur Armitsbekännlung, und zur Verringerung von Mangelemährung des Ernwildungsändern durch verbessterte Genüssproduktion und Erhölung des Andere Andere Anter Alexander exclusion ober ministeraulit Entwicklungsändern durch verbesserte Gemüseproduktion und Erhörung des Gemüsereforsucht. Die Ziele sind die gleichen gebieben, aber mitterweite werden Auforn der eine eine seinen kannen "Madel Vanneher Constant waren

Gemisseverbrauchs. Die Ziele sind die gleichen gebieben, aber mitterweie ist das AVRDC, das sich seit einigen Jahren "World Vegetoble Center" neuns-auch im anderen Weitregionen blog und unterhäit Regionalbüros für Artika in Anrehs für Zeertal- und Wertseise in Dubai. für Görbeisen in Heidershad und auch in anderen Weitregionen tätig und unterhält Regionalbüros für Arnia in Arutha, für Zentral- und Westasien in Dubai, für Südasien in Hyderabad und

Der Anbau, die Verarbeitung und der Verbrauch von Gemüse tragen zu allen Der Aubau, die Verarbeitung und der Verbrauch von Gemütze tragen zu allen der acht. Milleminum-Entwicklungsziele der Vereinten Nationen bei. Dahen unterstützt die Bundesregierung das AVRDC seit vielen Jahren und ist neben Twissen der 1KA. Confiberiennen Theiland und Isron aller der werbrierten für Ost- und Südostasien in Bangkok.

Taiwan, den USA, Großbritannien, Thalland und Japan einer der wichtigsten Förderer des Centers, das ein Jahrebudget von gena 15 Millionen US 5 autweist. Des weiteren finanzieren Verschliedene Institutionen und Softungen wie des 8 Melinda Gates Foundation, die Agan Development Bank und die Alste Druke Goud Auswirken Demenser und Busieher die Ausern Unter den 300 Hitarbeitern des AVRDC sind auch einige Deutsche zu finden, 50 zum Beispiel in Taivan Andreas Bert, der Leiter der Genbark, und sinnene Kriesenner, Schlöcknonnin, im Mall Thereta Erders, Ernährungberstein, sowie in Thalland Robert Holmer, Leiter des Regionalbitos, Marliere Diekmann von der

Emahrungsberaterin, sowie in Thailand Robert Holmer, Leiter des Regionalbüros. Mariene Dielmann vo Gezellschaft für Internationale Zusammenarbeit (GIZ) vertritt deutsche Interessen im AVRDC Aufsichtsrat. Was macht Gemise so bedeutsam für die Entwicklungszusammenarbeit. Die meisten Gemissearten sind wichtige "celt ordet" für Kleinbauern, da sie schon weniee Wochen nach Aussaat seerntet und verzehrt oder verlautt

Was macht Gemiles 50 bedeutsam für die Entwicklangtstammerarbeit: Die meisten Gemilezarten sind wichtige "coh orgen" für Kleinbauern, da sie schon wenige ein Getreide gedeilt Gemilez zeitst auf Viensten Frächen, und werden kommen. Im Gegensatz zu Reis oder angelen Getreide gedeilt Gemilez zeitst auf Viensten Frächen, und werden konnen. Im Gegenzuz zu Reis oder anderem Getreide gedeint Gemüse selbst auf kleinsten Fächen. I kann sopar in Städten angebaut werden, wobei alte Pastiklauchen oder Autorefen als Behälter dienen können. Gemüse ist das Aschenguttel unter den Nahrungsmitteln und wird oftmals verschnäht und unterschätzt, obwohl es für die wenrehierte Freihrune eine berzutriseende Redeumne hat. Fast alle Viraniee und Mineraistetie finden Gemisse ist das Aschenguttel unter den Nahrungsmitteln und wird oftmals verschmäht und unterschätzt, obwohl es für die menschliche Ernährung eine herzusragende Bedeunng hat. Fast alle Vitamine und Mineraistoffe machen sich im Gemise. Der hohe Baluststoffanteil sowie sozenannte sekundäre Pfanzennährstoffe machen es noch ef für die menschliche Ernährung eine herzusragende Bedeutung hat. Fast alle Vitamine und Hineralistoffe finden sich im Gemüse. Der hohe Ballaststoffanteil sowie sogenannte sekundäre Planzennährstoffe machen. Gemüseorten werzoller: So wirken zum Beizeiel Carotinoide, die in seiben, roten und oranzefarbenen. Gemüseorten sich im Genüise. Der hohe Buliusstoffanteil sowie sogenannte sekundare Pfanzemähnstoffe machen er ondn wertvoller. So wirken zum Beispiel Carotonolde, die im geben, roten und orangelarbenen Gemüsesonten verkrennens bei der Vitemin-A-Ridene Fusvonnide aut Zwiebein. Schnittiauch und Knoblauch können bezimmen werboller. So wirken zum Beispiel Carotinoide, die in gelben, roten und orangetarbenen Gemizeorten Volkommen bei der Vizamin A-Bildung Favonoide aus Zwiebein, Schnittizuch und Knoblauch können beistimmten Krebrarten vorbeugen und wirken antibiotisch. Saponine, zum Beispiel von Hütsentrüchten, können den Vorkommen, bei der Vizamin-A-Bildung, Favonoide zur Zwiebeln, Schnittauch und Knoblauch können bezimmen Krebrarten vorbeugen und wirken zumbiotisch. Saponine. zum Beispie von Hülsenfrüchnen, können giet Cholestenningeigt sterken. Eine gemeinzume Statie des AVRDC mit der Universität Gießen an Hülsen zieft dass Buterenzien, ein Gemüse aus der Kürbistanise den Rutruckerzuiseel senken und eleirhozeite beim Abnehmen

Cholesterinspiegel Jerken. Eine gemeinname Studie des AVRDC mit der Üniversität Gießen an Mäuren zeigt, dass Bittergurken, ein Gemisse aus der Kürbehennille den Biutsuckerspiegel seinen und gleichzeitig beim Abnehmen bei helfen. Demach basiert die zuckerseinende Wirkung der Pflanzen auf den darin enthälteren Lipiden, der erwehttrotesteinende Effekt dereren auf den Saponinen. Die Gezellschaft für Internationale Zusammenarbeit hefen. Dennach basiert die zuckersteikende Wirkung der Plansen auf den darin endulteren Lipiden, der gewächstreduiterende Erleit dagegen auf den Saponnen. Die Gesellschaft für Internationale Zuammentuler (GZ) fördert gegenwärtig ein weiterführende Projekt des AVRDC und der Univerzität Gießen zu desem Thema Unter anderen wollen die Forscher entschlüsseln, welche der etwa hundert verschiedenen Reternerivercerten

(GIZ) fördert gegenvärtig ein weiserführendes Projekt des AVRDC und der Universität. Gießen zu desem Thema. Unter anderem wollen die Forscher entschlüsseln, welche der etwa hundert verschiedenen Bittergurkensorten Unter anderem wollen die Forscher entschussen, werdie oer eiwa namen, versumeroren owe gernaum om mit besten gegen Diabeste helen, mit 85 Philosen blaansten Diabeskern git Diabeste als größte Volkskrankheit Deutschlandt. Et wird vermutet dast weitere vier Hillionen ihre Krankheit noch zur nicht bemerkt haben. Wenn sich die Krankheit weiter wie Mit 8.9 Millionen berannten Diabetkern gik Diabetes als größte Volkkrankheit Deutschlands. Es wird vermutze, das weiter wier Millionen ihre Krankheit noch gar nicht bemerkt haben. Wenn sich die Krankheit weiter wie hister endemiesrtir ausbreitet, wird weeen der vielen Folgeerkrankungen – wie Deoressionen. Demenz dass weitere vier Millionen Ihre Krankheit noch gar nicht bemerkt haben. Wenn sich die Krankheit weiter wie bisher epidemiaartig ausbreiset, wird wegen der vielen Folgeerkrankungen – wie Depressionen, Demanz Instructurschaftuck, Erbinnung oder Amprutationen – das Gezungtung mit zu wenig (Dost und Gemütie Häupertrache für Diabetes Typ 2 geiten hetz: und kohlehyräratriche Erbihrung mit zu wenig in indversiteineren sonie Bewegungsmangel. Diese altrmierende Zunahme an Diabetes findet eich nicht nicht mit in indversiteineren Hauptursache für Diabetes Typ 2 gelten fett- und kohlehydratreiche Ernähnung mit zu wenig Obst und Gemüse sowie Bewegungsmangel. Diese alarmierende Zunahme an Diabetes findet sich nicht nur in industrialisierten

Newsletter of the German Embassy in Thailand

Thanks, Robert H.!

local media

Les tiges

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Reporting Science in Africa

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Crop protection Kenya's hi-tech weapon in

pest control Micro-insurance for crops

> ust disease Crop rotation for pest control

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GM crop trials - from paper to

Stemming the tide of wheat

Disease-free seed for yam

Crop development

Vitamin A

Feedback

Minimum tillage by hoe and

Vitamin A to fight hidden

Orange sweet potato for

Neglected no more -improving Africa's leafy

Moving from maize to

West Africa uilding sustainable forest

Super sorghum - high yielding and drought tolerant

Cassava - the drought beater

<u>GM crop trials - from paper to</u> practice

Local radio, newspapers, TV: looking for stories about you! Agfax

Correspondents

Stronger vegetables need less spraying

Originally an Asia-based organisation, AVRDC (the

Climate change

ommunication

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Crop protectio

Diversification

Environment

Gender

Health

Soil

arm business

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Group work

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Food & nutrition

World Vegetable Center) now

has regional offices in East and

West Africa, where it develops

improved vegetable varieties

on behalf of smallscale farmers.

The mission of the Center is to

tackle poverty and malnutrition

through increased production

and consumption of nutritious

indigenous and exotic species

Cameroon held a vegetable

Audio

Chindong

Recently, Center staff in

day to showcase new varieties developed in partnership with Cameroonian farmers. Takemore

run amsenne Download transcript as: 📓 <u>Microsoft Word document</u> (63 KB) 📓 <u>pat document</u> (145 KB)

Transcript

I am Martha Chindong, the farmer's friend. Today I am at the AVRDC, the World Vegetable Center. I want to meet the Country Representative to find out a few things

Duration: 4'36

Date published: October 2011

Chagomoka, a Center liaison officer and seed business specialist, explains more about the

Vingenment, a verse reason once are seen usines specialist equipment Varieties developed, and the opportunity they provide to farmers in the region.

cast Informa

Interview by: Martha Chindong

Country: Cameroon

and health-promoting

vegetables, including



santé / nutrition

in-house publications



14 October, 2011 AVRDC makes new connections, from the neighborhood to northern Europe. Page 12



Variety, vitality, vegetables

Tribal communities in India turn to vegetable production to vary their diets

Two reports from AVRDC South Asia tell how the Senter's home garden kits and tomato crop management packages have made vegetables a vital addition to meals in remote and rugged Jharkhand.



Conflict in the kitchen garden?

To the Mundari-speaking tribal community of Jharkhand in India, the word "kitchen" sounds similar to their word for fighting. So the introduction of what were first termed "kitchen gardens" provoked confusing images of violent vegetable patches.

An enthusiastic welcome from the

FRESH!

The AVRDC Newsletter

Sent to more than 4,000 subscribers twice a month

Thanks to all our contributors!

Feedback from the field

Four times a year...field experiences with cooperators and colleagues



In the lowland areas of south-central Thailand such as Pathumthani province, located around 100 km north of Bangkok, many smallholder farmers are growing vegetables partyron, that y attention of the song Nam farming system. With year-round by adopting the Rong Nam farming system. With good access to water and markets, farmers in these periurban sites grow vegetables and supply Bangkok City with

In Thai language, 'Rong' means canal and 'Nam' means water. Growing fruits and vegetables on raised fields (beds) surrounded by canals is popularly called the Rong Nam farming system. It is conceptually similar to chinampas, a centuries-old farming practice by native Americans in Mexico In which crops are cultivated on floating Islands in a lake

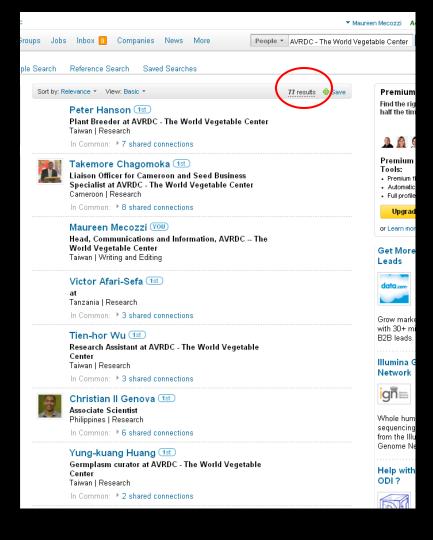
system; and to the 'Surjan system' in lowland areas of Java, Indonesia wherein vegetables are grown on raised beds and rice is planted in furrows. These locally well-adapted cropping systems evolved in response to adverse environmental constraints (abiotic stresses) to farming in lowland and

In the Rong Nam farming system, vegetables and fruits such as banana, orange and mango are grown on raised beds 1.5 to 2 m in width and water is maintained in canals of the same width all year-round. The raised beds are separated by canals that are wide enough for a small boat to navigate for farming operations. The crops planted on the raised beds are rotated operations, the copy premer of the range details are rounted seasonally to minimize the risk of damage from insect pests

CONNECT

what you do share

Linked in



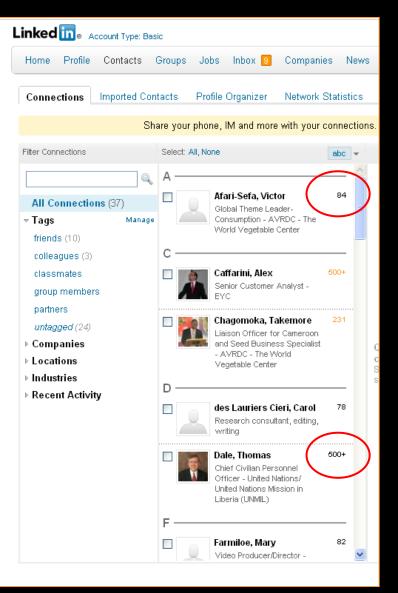
 Share details about your work experience & education

http://www.linkedin.com/

A few ways to use Linked in

- Job search
- Recruiting (find candidates and check on their background)
- Ask for advice
- Find a contact/project partner
- Check out the competition

 Prepare for a conference (learn something about the other participants beforehand, easier to chat when you meet)



Build a global network of contacts

Linked in a Account Type: Basic										
	Home	Profile	Contacts	Groups	Jobs	Inbox 🧕	Companies	News	More	Peop
_	Connec	tions	Imported Co	ntacts	Profile	Organizer	Network Sta	tistics		

Here you see statistics about your network, including how many users you can reach through your connections. Your network grows every time you add a connection — invite connections now.

Your Network of Trusted Professionals

You are at the center of your network. Your connections can introduce you to 671,600+ professionals — here's how your network breaks down:

Your Connections Your trusted friends and colleagues	37
Two degrees away Friends of friends; each connected to one of your connections	5,800+
Three degrees away Reach these users through a friend and one of their friends	665,700+
Total users you can contact through an Introduction	671,600+
999 new people in your network since October 19	



A few ways to use Twitter

- Track trends in your own and other fields see what people are discussing
- Follow donors...get a feeling for what is on their agenda
- Ask for advice
- Participate in a conference (follow/contribute)
- Direct people to something *you* think is important

Home @ Connect	# Discover 🧘 Me	Search	<) ☆-
Tweets	>		
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Favorites	>	WorldVegetable	Center
Lists	>	@go_vegetabl Intl nonprofit R&D institute committed to	
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Catherine A. Bertin	partnership on a	ership Education	



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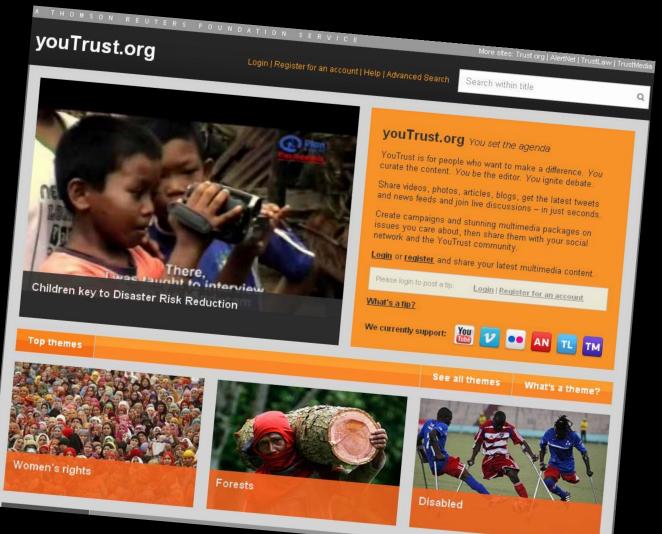
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Agricultural Biodiversity Weblog

Crops, animals, wild relatives ...

About

Separated by half a world but united by their passion for agricultural biodiversity and the internet, Luigi Guarino and Jeremy Cherfas decided to create a space that would allow them to indulge their passions and maybe do some good.

This blog is it.

+1

Our aim is to collect in one place anything we find on the internet that relates somehow to the notion of agricultural biodiversity (or agrobiodiversity, though we don't particularly like the word), a big tent but one that the whole of humanity shelters beneath. If that helps others to find things of interest, so much the better.

We welcome contributions, either as comments to the items on the website, or as a message you can send from <u>here</u>. You don't even need to register (though it would be nice if you did). So what are you waiting for?

About us, there's not much more that needs to be said. We're both professionally involved in biodiversity (and it isn't hard to find out how) but this site is an entirely private affair for which we alone are responsible.

We may even be available for work, if there's something you need doing.

To search, type and hit enter

E

FRESH NIBBLES: OCTOBER 20, 2011 : <- CLICK TO COMMENT

- Profile of Yacouba Sawadogo: "people in his village thought he was mad". A new metanarrative for our time.
- Pre-Columbian agriculture in the Amazon. Maize, not manioc, rules.
- Less than a week to go until the big CIALCA conference in Kigali, Uganda.
- Soil nitrogen from rocks? Really?

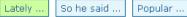
NIBBLES ARCHIVE: ALL THAT CONDENSED GOODNESS.

FEATURED COMMENT: OCTOBER 17, 2011

Robin Hide says nutritional data on PNG crops is pretty readily available:

The ready availability of such information to villagers is a problem, but at least this information is no longer buried in inaccessible journals.

And she has the references to prove it. But what about those villagers?



Solving broomcorn millet

- From little acorns (and other tree seeds) mighty oaks (and other trees) grow
- Protecting Armenian vivifying tea
- A new database helps you know your onions
- World Food Day deconstructed
- The pomegranate in Armenia
- Brainfood: Ectomycorrhiza, Synthetic peanuts, Ancient Greek
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- domestication
- Women with Cows #BAD11
- Taking nutritional data to the PNG public #BAD11
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2

Agricultural Biodiversity Weblog

Crops. animals. wild relatives

AVRDC's treasure trove of diversity

by LUIGI on JULY 17, 2010

I was recently at AVRDC headquarters in Taiwan and was quite taken with their demonstration garden. (Among other things. The genebank operation is also impressive, and recovering from a recent unfortunate setback.) It's a wonderful display of both vegetable diversity and cultivation systems. I was going to blog about it, but then life intervened, or at least work did. Anyway, the latest issue of AVRDC's newsletter has a piece on the garden, and they have kindly agreed for us to reprint it here, as the newsletter itself is not available online. Which kinda gets me off the hook. The photographs are mine. The following text (and this post's title) are courtesy of AVRDC.

Although there are thousands of plants people can consume, humanity relies on only a relative handful for food. Indigenous vegetables - whether semiwild or domesticated - can greatly expand the menu. Grown primarily in their centers of origin or introduced in a given area, indigenous or traditional vegetables provide food in times of scarcity for the world's poorest people, yet these hardy, nutritious species often are underutilized.



AVRDC - The World Vegetable Center - aims to promote production and consumption of indigenous vegetables, and the Center's Demonstration Garden showcases different

FRESH NIBBLES: OCTOBER 20, 2011 : <- CLICK TO COMMENT

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The ready availability of such information to villagers is a problem, but at least this information is no longer buried in inaccessible journals.

And she has the references to prove it. But what about those villagers?



Solvina broomcorn millet From little acorns (and other tree seeds) mighty oaks (and other trees) arow Protecting Armenian vivifying teal A new database helps you know your onions World Food Day deconstructed The pomegranate in Armenia Brainfood: Ectomycorrhiza, Synthetic peanuts, Ancient Greek amphorae, European bison, Pea breeding, Animal domestication. Women with Cows #BAD11

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28

talking about this



Harvesting super hot trials next week!! Like · Comment · Share · October 6 at 5:29am



Information

Category: Common Interest - Science

Description: For those select few who choose to breed and genetically modify plants.

Privacy Type: Open: All content is public.

Admins

- Ben Campbell (Purdue) (creator)

Officers

Ben Campbell (Purdue) Plant Breeder







A few ways to use Facebook

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"Nature abhors a vacuum."

-- Aristotle et al.

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