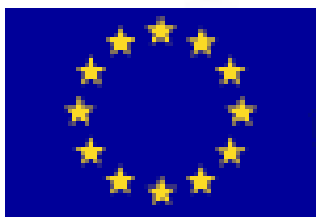
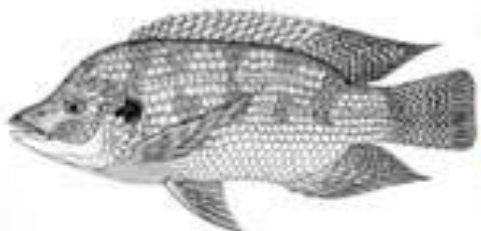


Reseaux de Recherche sur L'Aquaculture Durable en Afrique Sub-Saharienne

SARNISSA



Dr M Beveridge
WorldFish Center
Cairo, Egypt

Sustainable Aquaculture Research Networks in Sub Saharan Africa

WIOMSA/IFS Workshop Dec 2009 Zanzibar, Tanzania

- Aquaculture Development in Africa?
- Large amounts invested through outside donors since 1960s
- Many meetings/workshops like this
- Dec 2009 - what's the outcome?
 - inland fish farming and mariculture?
 - East Africa and across the continent ?
- Shrimp Madagascar, Finfish La Reunion, Mayotte; seaweeds, milkfish E Africa; nascent oyster, abalone and fin fish culture, South Africa, Namibia.
- Much still at R&D stage



On the road to African aquaculture development

- The FAO COFI (FAO Committee On Fisheries) sub-committee met in September 2006 in New Delhi to discuss the future potential for African aquaculture, where they highlighted:
 - “... the five big constraints to aquaculture development being **feed, seed, capital, markets and information**”



- Feed
- Seed
- Capital
- Markets
- Information



SARNISSA primarily addresses the last of these

Information is ... power, knowledge

- **Information** - the concept of a network of a wide range of individuals being involved in African aquaculture joined together – **THIS IS SARNISSA**
- Not just researchers , but govt, NGO's, fish farmers, markets sector, students, commercial and service suppliers, potential funders, other water users, agriculturalists
- Sharing information
- Making new contacts across borders and across languages
- Relating research to end users

Sarnissa Project Concept



- To build a sustainable aquaculture research network for Africa
- Focus on **communication**, networks and collaboration between Sub-Saharan African stakeholders – Francophone/English speaking, researchers, commercial SMEs, govt, related interdisciplinary
- Network is contributing to knowledge-based aquaculture development, by sharing and making available key information and publications to ALL
- Free Access to African updated online Aquaculture Compendium
- Focus on individuals rather than institutions – not restricted by institutional constraints



Research Networks - challenge of scale and diversity in Africa ... bringing people together ...



Project introduction



- Began 1st February 2008
- Ends 31st January 2011
- EC FP7 funded Project
- 3 years duration
- 9 partners
 - 4 African: Malawi, Cameroon, Egypt, Kenya
 - Asian: Thailand
 - 4 European UK, French, Netherlands



Each partner brings its own experience ...



CIRAD

La RECHERCHE AGRONOMIQUE
au service des PAYS DU SUD



Specific Objectives

1. The enhancement of **knowledge exchange** in aquaculture
 - between and among African stakeholders in general
 - between Anglophone and Francophone regions in Africa
 - between Africa and Asia (South-South collaboration)
 - between Europe and Africa (North-South collaboration)
2. Empower stakeholders, from researchers to end users, to collaborate within and across disciplines, languages and country boundaries to form **new alliances** focusing on sustainable aquaculture development for end users



18 months into Sarnissa, we have:

- **Stakeholder database**
 - **1,100 individuals** (and growing) involved in aquaculture from across Africa and internationally, from research, commercial, markets, govt, NGO and other sectors
- **English & French email discussion fora**
 - Many previously unknown to each other now communicating via email discussion fora
 - Beginnings of exciting cross over between English and Francophone stakeholders – Through SARNISSA Ivorian fish farmer talking to researcher in Kenya, US based Ugandan making contacts to start fish farm in Uganda

Sarnissa : African Aquaculture Research Institutes Links - Windows Internet Explorer

http://www.sarnissa.org/818-index.php?page=African+Aquaculture+Research+Institutes+links

Find

Language: en
English

Sarnissa - African Aquaculture Research Institutes Links

African and International Research and Academic Organisations

Universités et Centres de recherches africains et internationaux



Africa/Afrique


Algerie/Algérie

Chambre Algérienne de la Pêche et de l'Aquaculture CAPA
La chambre nationale de pêche et d'aquaculture est une institution à caractère industriel et commercial, placée sous la tutelle de M. le Ministre chargé de la pêche et des ressources.

Sarnissa : Latest Media African Aquaculture - Windows Internet Explorer

http://www.sarnissa.org/818-index.php?page=Latest%20Media%20African%20Aquaculture

Latest Media African Aquaculture - L'Aquaculture Africaine dans les Médias



African Aquaculture in the News

English

If you have any recent media articles/links related to African aquaculture (research, commercial, markets etc) please see to wf2@stir.ac.uk for inclusion in the website

Français

Si vous avez des liens ou des articles en rapport avec l'aquaculture africaine (recherche, entreprises, marchés etc.), n'hésitez pas à les partager en adressant un email à wf2@stir.ac.uk afin que nous puissions l'ajouter au site.

October / Octobre 2009

Liberia: 'Let's Prioritize Aquaculture'

Kenya: Western province set to benefit from fish farming plan

Sierra Leone: President Koroma's Speech in Parliament We are also securing support for the transformation of the Bo experime fish farming station into an aquaculture training centre

Côte d'Ivoire: Le programme de gouvernement de Mabri prévoit de réhabiliter et renouveler des projets de pisciculture

Sarnissa : Video links - Windows Internet Explorer

http://www.sarnissa.org/818-index.php?page=Video%20links

Research and Employment Opportunities

Appels à Projets et Offres d'Emploi

English

We would welcome hearing from you (email wf2@stir.ac.uk) if you apply or are thinking of applying for any of the research funding or employment opportunities listed below. All communications will be treated confidentially.

Français

Merci de nous prévenir (email wf2@stir.ac.uk) si vous vous portez candidat à l'une de ces offres d'emploi ou à l'un de ces appels à projet. Nous traiterons toutes les informations reçues de manière confidentielle.



October / octobre 2009

Intern for Aquaculture Conference Asian Inst of Technology, Bangkok, Thailand

Aquaculture Nutrition Research Manager HCMC, Vietnam

Sarnissa : Video links - Windows Internet Explorer

http://www.sarnissa.org/818-index.php?page=Video%20links

vous-même quelques vidéos que nous pourrions inclure sur cette page

Latest videos - Les dernières vidéos



fisherine_nibicus_potential_for_large-scale_aquaculture?

L'élevage des artemes en France - organic abalone farming

The Abalone Farm Central Coast California USA

Big Island Abalone Corporation Hawaii

Hawaiian Grown TV - Big Island Abalone - Big Island Abalone Corporation Part 1

Hawaiian Grown TV - Big Island Abalone - Big Island Abalone Corporation Part 2 Great sushi chef!

Abalone cleaning after shucking

Abalone "shucking"

Binangonan Freshwater Aquaculture Research Station SEADEC Philippines

Australia:North Melbourne Inst of TAFE, BSc Course RAS Systems Aquaculture: the fishy truth

Harvesting, sorting and then transporting fingerlings, Raigachi, Bangladesh Note methods of aeration, containers used for transporting, and method of transport

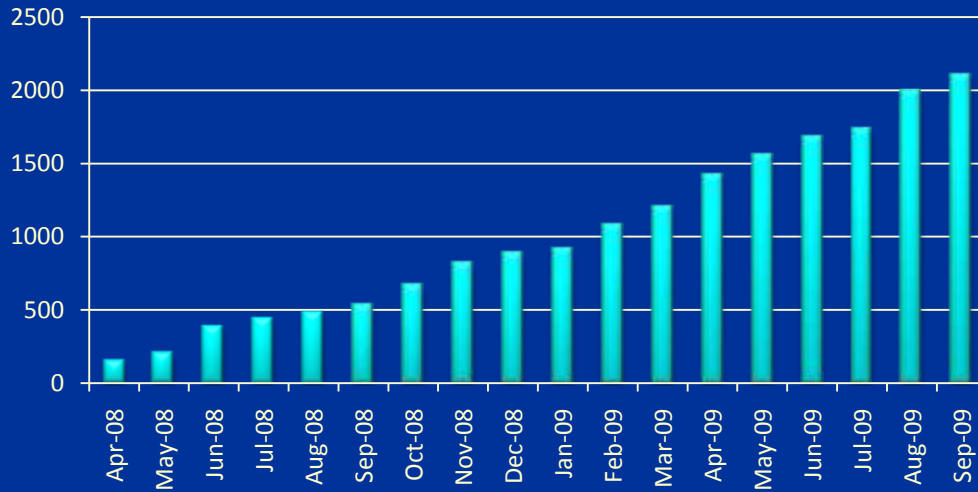


www.sarnissa.org Links to:

- African + International Research and Academic Insts
- African Fish Farms, Producers Associations, Commercial suppliers
- Latest Research, funding and employment
- Video links
- Interactive African aquaculture discussion fora
- Latest conferences, meetings and workshops
- Downloads for latest African related publications for AC
- African Aquaculture in the media – latest news



Nos of website hits per month



Sept 09 - 490 hits per week, 2100 hits per month

Stakeholder database Oct 2009

Total numbers of stakeholders (SH) Oct 2009	1145 (760 Africa) (385 Int.)
N^{os} Francophone stakeholders	359
N^{os} Anglophone stakeholders	786
African Countries	42
International Countries	45

A	B	C	D	E	F
1	Dardour, Maxine	Director General Admin	Royal Commission on	11 BP 208, Porto Novo	Benin
2	LALUCIE, Philippe	Department Head	Ministère National des Evén, Factions des Services Agronomiques	BP 6281, Cotonou, Bénin	Benin
3	Melloni, Douglas	Human Resources	Strategic Center	11 BP 500, Porto Novo, Bénin	Benin
4	OGBOUE, Ghislain	Contractual Facilitator			Benin
5	YERUWAKO, Germain	Fisheries consultant	Independent	10 BP 627, Cotonou	Benin
6	Toussaint, Vincent	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
7	NANMAN, Theophile	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
8	NANMAN, Theophile	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
9	ABEDOU, Ousmane	Director	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
10	ABEDOU, Ousmane	Director	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
11	COMPAORE, Emmanuel	Researcher	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
12	KARORE, Caroline	Director des Pêches	Min. National des Evén, Factions des Services Agronomiques	11 BP 500, Porto Novo, Bénin	Benin
13	KIGATE, Lucille	Researcher	Ministère de Développement Rural, Université Polytechnique de Bobo	BP 100, Ouagadougou	Burkina Faso
14	MACRO, Maurice	Researcher	Ministère de Développement Rural, Université Polytechnique de Bobo	BP 100, Ouagadougou	Burkina Faso
15	QUATTARA, Elena	Researcher/consultant	Ministère de Développement Rural, Université Polytechnique de Bobo	BP 100, Ouagadougou	Burkina Faso
16	TODIOME, Modeste	Director General	Ministère de Développement Rural, Université Polytechnique de Bobo	BP 100, Ouagadougou	Burkina Faso
17	YANUARI, Milla	Chief de Service, Développement Industriel, Pêche, Halieutique	Ministère de Développement Rural, Université Polytechnique de Bobo	BP 100, Ouagadougou	Burkina Faso
18	ZENGO, Jean	Chief de Service, Développement Industriel, Pêche, Halieutique	Ministère de Développement Rural, Université Polytechnique de Bobo	BP 100, Ouagadougou	Burkina Faso
19	NANMAN, Theophile	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
20	KOUA, Jean-Michel	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
21	MOGHE, SADILO Olype	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
22	MOGHE, SADILO Olype	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
23	MOGHE, SADILO Olype	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
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40	MOGHE, SADILO Olype	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
41	MOGHE, SADILO Olype	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin
42	MOGHE, SADILO Olype	Assistant Director - Fisheries	Department of Fisheries and Development Policy - Africa	10 BP 627 Cotonou	Benin

Website visits by country Sept – Oct 09

Visits ▾



2,192 visits came from 118 countries/territories

Website visits by city Sept – Oct 2009

Visits ▾



2,192 visits came from 532 cities

Website Coverage by City Visits per month Aug 22 – Sept 21 09

City	Visits	Pages/Visit	Avg. Time on Site	% New Visits	Bounce Rate
(not set)	144	2.24	00:03:20	61.11%	67.36%
London	134	6.19	00:12:38	23.88%	38.81%
Abidjan XXXX	112	1.29	00:00:35	67.86%	87.50%
Stirling	104	5.19	00:08:21	5.77%	36.54%
Lagos XXXX	72	2.24	00:05:05	68.06%	69.44%
Accra XXXX	65	2.72	00:05:17	70.77%	60.00%
Paris	53	1.06	00:00:34	39.62%	94.34%
Nairobi XXXX	47	4.32	00:09:12	63.83%	34.04%
Windhoek XXXX	37	1.62	00:02:10	13.51%	67.57%
Kampala XXXX	27	4.70	00:08:08	74.07%	48.15%
Dakar XXXX	26	1.31	00:00:54	80.77%	76.92%
Mandaluyong	25	2.68	00:05:00	24.00%	36.00%
Manila	25	1.96	00:01:35	88.00%	60.00%
Cotonou XXXX	23	3.52	00:08:01	47.83%	65.22%
Montpellier	22	2.95	00:03:21	18.18%	68.18%
Washington	19	1.32	00:00:35	21.05%	73.68%
Port Harcourt XXXX	18	3.61	00:07:49	72.22%	50.00%
Adis Abeba XXXX	17	2.41	00:04:09	70.59%	41.18%
Abuja XXXX	17	1.35	00:03:01	64.71%	70.59%

Message



From: sarnissa-african-aquaculture-bounces@lists.stir.ac.uk on behalf of William Leschen [william.leschen@stir.ac.uk]
To: aefalaye@yahoo.com
Cc: sarnissa-african-aquaculture Mailing List; sarnissa-african-aquaculture; Kim Jauncey
Subject: Re: [Sarnissa-african-aquaculture] Tilapia feed composition Port Harcourt Nigeria Fibre Content - integrated fish/rabbit systems Rwanda

Sent: Thu 12/02/2009 13:1

Message A short catfish feed handbook Nigeria K Jauncey.pdf (673 KB) ATT00002.txt (474 B)

Dear Augustine,
This is available for download from the SARNISSA site <http://www.sarnissa.org/tiki-index.php?page=Latest%20material%20for%20Aquaculture%20Compendium> - look under July 2008.
There are also a number of other catfish related publications available on the same page.
I have also attached Dr Jauncey's Handbook to you

Best wishes
Will Leschen
Univ of Stirling UK

From: Augustine Falaye [mailto:aefalaye@yahoo.com]
Sent: 12 February 2009 12:56
To: sarnissa-african-aquaculture Mailing List; William Leschen
Subject: Re: [Sarnissa-african-aquaculture] Tilapia feed composition Port Harcourt Nigeria Fibre Content - integrated fish/rabbit systems Rwanda

Dear Professor Kim Jauncey,
Kindly let me have a copy of the Catfish Feeding Handbook referred to in this mail. It will be obviously useful for the use of our students and the local catfish farmers.
Regards.
Professor Eyiwunmi Falaye

--- On Thu, 2/5/09, William Leschen <william.leschen@stir.ac.uk> wrote:

From: William Leschen <william.leschen@stir.ac.uk>
Subject: [Sarnissa-african-aquaculture] Tilapia feed composition Port Harcourt Nigeria Fibre Content - integrated fish/rabbit systems Rwanda
To: "sarnissa-african-aquaculture Mailing List" <sarnissa-african-aquaculture@lists.stir.ac.uk>

SARNISSA is identifying and helping key stakeholders

- Who can work together/ collaborate towards putting in a research or development proposal – researchers + commercial
- Helping to identify relevant funding sources – they are there – you just need to know where to look.....
- Helping but not writing - how best to write a concept note or proposal?
- What are the funders looking for??
- Submitting and waiting for result



SARNISSA HAS NO FUNDS TO GIVE OUT TO INDIVIDUAL RESEARCHERS, PROJECTS, ACADEMIC INSTS

OUR AIM IS THROUGH FORMING NETWORKS PROVIDING A WIDE RANGE OF PEOPLE WITH ACCESS TO INFORMATION AND CONTACTS SO THAT PEOPLE CAN HELP THEMSELVES



e.g. initiating research and end user collaboration

- with help from SARNISSA, **West African Group started up**
 - **Regional Partner Victor Pouomogne IRAD, Olivier Mikolasek CIRAD, Eric Miahle commercial/community shrimp producer Cameroon, other stakeholders in Benin, Cote D'Ivoire, Ghana**
- **Group of people looking to develop research and development proposals together based towards end users**
- **Outcome: to create capacity to**
 - **to identify potential proposals which can be funded**
 - **identify best partners and source of funding**
 - **write proposal together**
 - **submit then**?
- **Aim of SARNISSA to support and help this process**

Other SARNISSA activities

- Preparation and publication of **user friendly case studies** - 10-15 pages of information and lessons learnt
 - **Lake Harvest**: commercial production of Nile tilapia on Lake Kariba
 - Role of academic institutions in development of **seaweeds cultivation** in Tanzania
 - Royal Fish Farm, Benin : A **commercial recirculation Clarias farm and hatchery** producing fingerlings and market size fish



Ten in-Country Aquaculture Status Reviews

- Including Uganda, Malawi , Cameroon, Cote D'Ivoire, Ghana, South Africa, Kenya
- Role(s) of government ,academic sector and private sector in research, policy and planning and markets?
- History, current status, successes and failures; future
- Many Hyperlinks Contacts

Asian Study Tour Reports

- Three African partners – 1 month trip to view aquaculture development in Thailand, Nepal, Bangladesh
- Overview of different sectors, govt, commercial, research, academic, markets; many hyperlinks, contacts



Case Studies (10 -15 pp + photos) - Call for authors

- For completed case studies, SARNISSA is offering:
 - **300 Euros**
 - **Open access to the online Aquaculture Compendium**
- Potential authors to send us:
 - The title of a potential Case study related to Southern African Aquaculture – please ask Dr Flower Msuya for details
 - A summary in no more than 300 words of what the case study is about and how it is relevant and can help end users e.g. fish farmers
 - details can be found at www.sarnissa.org
 - send entries to Will Leschen wl2@stir.ac.uk

- Finally, if you wish to become a stakeholder and benefit from the SARNISSA network
- Contact

Prof Charles Ngugi
Moi Univ, Eldoret,
Kenya

cngugi@africaonline.co.ke

Will Leschen, Institute of
Aquaculture, Stirling UK

w12@stir.ac.uk



Thank you and





Amazing what you can do by communicating, sharing and collaborating to really make something.....