



January 23-27, 2010
Palm Springs, California

- [Publications](#)
- [Sections](#)
- [News](#)
- [Community](#)
- [Multimedia](#)
- [Awards](#)
- [Subscribe](#)

[Advanced Search](#)

[Home](#) > [News](#)

- [RSS Feeds](#)
- [Newsletters](#)
- [Bookmark](#)

[\[-\] Text](#) [\[+\]](#)

Alternative animal feed part of global fisheries crisis fix: UBC study

Posted In: [Environment](#)

By [EurekAlert](#)

Tuesday, November 17, 2009

Finding alternative feed sources for chickens, pigs and other farm animals will significantly reduce pressure on the world's dwindling fisheries while contributing positively to climate change, according to University of British Columbia researchers.



Email 0 tweets

Print tweet

"Thirty million tons ⁽⁴⁾ or 36 per cent ⁽⁴⁾ of the world's total fisheries catch each year is currently ground up into fishmeal and oil to feed farmed fish, chickens and pigs," says UBC fisheries researcher Daniel Pauly, co-author of the *Oryx: The International Journal of Conservation* article, published online this week.

"Meanwhile, 25 per cent of infants in Peru ⁽⁴⁾ which produces half of the world's fishmeal using anchovies ⁽⁴⁾ are malnourished," says Pauly.

In the *Oryx* article, nine of the world's leading fisheries and conservation researchers ⁽⁴⁾ including four from UBC ⁽⁴⁾ reviewed the effectiveness of past conservation campaigns and propose new strategies to effect swifter and larger-scale changes.

"Globally, pigs and chickens alone consume six times the amount of seafood as US consumers and twice that of Japan," says lead author Jennifer Jacquet, a post-doctoral fellow at UBC's Fisheries Centre. "Ultimately these farm animals have a greater impact on our seafood supplies than the most successful seafood certification program."

"We should work to eliminate the use of tasty fish for livestock production. It's a waste," says Pauly. "Plus, it is not what pigs or chickens naturally eat. When is the last time you saw a chicken fishing?"

Many sustainable seafood campaigns focus on consumers but ignore large-scale market impacts ⁽⁴⁾ such as farming demand for fishmeal ⁽⁴⁾ and have failed to reach their goals, say the study's authors, which include Enric Sala of the National Geographic Society and Rashid Sumaila and Tony Pitcher of UBC.

After pioneering and distributing more than one million seafood wallet cards ⁽⁴⁾ pocket-sized guides that advise consumers of ocean-friendly seafood, the Monterey Bay Aquarium conducted a study that revealed no overall change in the market and that fishing pressures had not decreased for targeted species, the study points out.

"Sustainable seafood certification programs such as wallet cards have raised consumer awareness but are far less effective than targeting mega supermarket chains such as Walmart, Whole Foods and Loblaws through a combination of positive and negative publicity campaigns," says Jacquet, adding that more than 60 per cent of seafood in Canada and half the seafood in the U.S. is sold through supermarkets.

The authors also suggest establishing international standards for labeling sustainable seafood, eliminating harmful fisheries subsidies and leveraging momentum for fisheries conservation through existing global concerns for climate change.

"Global fisheries consume 13 billion gallons of fuel each year just to catch and land fish," says Jacquet. "That's more gas than 22 million cars would use. Energy use would be much higher if we include the fuel used to ship fish further for processing and to market. No discussion of the overall impact of fisheries would be complete without clarifying its contribution to greenhouse gas emissions and climate change."

"Overall, we'd like to encourage people to engage more as citizens ⁽⁴⁾ as they have with the global climate change movement ⁽⁴⁾ and less as mere consumers," said Pauly. "Big problems like overfishing require efforts to be directed at big change."

[SOURCE](#)

Advertisement

Ceramic Piezo Motor Drives

- High Speed
- Push/Pull Forces to 7 N
- Self-Locking

Latest News

[more](#)

[Atomic-level snapshot catches protein motor in action](#)
54 minutes ago

[First black holes may have incubated in giant, starlike cocoons, says CU-Boulder study](#)
58 minutes ago

[Zapata Energy Q3 shrinks to \\$844,000 from year-earlier \\$5.6 million](#)
1 hour ago

[Police: 200 cars torched in Berlin this year](#)
1 hour ago

[Gene increases effectiveness of drugs used to fight cancer and allows reduction in dosage](#)
1 hour ago

Advertisement

R&D Magazine and the LABORATORY DESIGN NEWSLETTER Webcast Series

Sponsored by: **SIEMENS**

Reducing Environmental Impact and Energy Consumption for Greener Laboratories

VIEW FREE TODAY

[Related Stories](#)

[Most Popular](#)

JOIN THE DISCUSSION

Rate Article: Average 0 out of 5

Register or log in to comment on this article!

0 COMMENTS

ADD COMMENT

Text input field for adding a comment.

Text Only 2000 character limit

Add Comment

Page 1 of 1

New To Market [more](#)

IDEX releases design resource for engineers

Nov 20

Available free to instrument manufacturers and design engineers, a 56 page book from IDEX Health & Science details products, engineering R&D services, and manufacturing capabilities for the development of highly precise, low volume, fluidic components and sub-assemblies.

Sigma-Aldrich teams with 3M to provide high-performance organic semiconductor

Nov 19

TIPS Pentacene, a soluble organic semiconductor for printed and flexible electronics, is manufactured by 3M under the name 3M Organic Electronics Semiconductor L-20856 and is the first in a family of soluble Pentacene-based semiconductors developed by 3M Electronics Markets Materials Division in collaboration with Dr. John Anthony, professor at the Univ. of Kentucky and founder of Outrider Technologies LLC.

Tools & Technology [more](#)



XYZ nanopositioning stage for super-resolution microscopy

5 hours ago

PI has added two new multi-axis stages for super-resolution microscopy applications, providing accurate motion with sub-nanometer resolution over travel ranges of 200 µm in XY and XYZ.

Analytical balance for laboratory applications

5 hours ago

Metler Toledo announced its new XP105 analytical balance, an addition to the company's line of XP balances. Offering a safe and accurate solution for quantifying the purity of sugar in a laboratory environment, the XP105 balance reduces the risk of errors, increases efficiency, and is user friendly.

First black holes may have incubated in giant, starlike cocoons, says CU-Boulder study

58 minutes ago | News

Establishing common seasonal pattern among bacterial communities

3 hours ago | News

Researchers establish common seasonal pattern among bacterial communities in Arctic rivers

3 hours ago | News

Strategic management theory offers fresh take on the economic crisis

3 hours ago | News

Predicting the fate of underground carbon

3 hours ago | News

Magazine/ Newsletters

Customer Service

Digital Issue

Oxide Nanoparticles

Pick Now! 99.99% Pure Assured www.NanoShel.com

Feed Formulation Software

Easy to use feed formulation Get the evaluation copy today! www.FeedSoft.com

Simple Fluorescent Counts

Compact Flow Cytometer Alternative Ideal for GFP, PI Viability, & More www.nexcelom.com



Bioscience Technology
Chromatography Techniques
Drug Discovery & Development
Pharmaceutical Processing
Laboratory Equipment
Scientific Computing
Lab Design News

Information:

About Us | Contact Us | Advertise With Us

Sitemap | Privacy Policy
Terms & Conditions

©2009 Advantage Business Media - All Rights Reserved

Stay in Touch:

Newsletters

RSS Feeds

Mobile

Podcasts

Blogs