



The Caribbean Academy of Sciences, Jamaica (CASJ)  
in collaboration with The Pesticide Research Laboratory (PRL)  
and The Pesticides Control Authority (PCA)

## **\*The Bee Industry - Threats and Challenges\***

**First in a Series of Agricultural Forums**

Chemistry Lecture Theatre - C5, The University of the West Indies, Mona

### **Moderator**

Dr. Dwight Robinson - Public Relations Officer, CASJ

### **Opening Remarks and Welcome**

2:30 P.M. – 2:40 P.M. Professor Tara P. Dasgupta, CD

President, CASJ & Head, Pesticide Research Laboratory

### **Introduction to CASJ**

2:40 P.M. – 2:50 P.M. Professor Robert Lancashire, Secretary, CASJ



## **Presentations**

2:50 P.M. – 3:00 P.M. Professor Tara Dasgupta, Head, Pesticide Research Laboratory

3:00 P.M. – 3:10 P.M. Mrs. Olive Downer Walsh, Vice President, Jamaica Agricultural Chemicals Association

3:10 P.M. – 3:20 P.M. Mr. Hugh Smith, Apiculture Officer, Ministry of Agriculture & Fisheries

3:20 P.M. – 3:30 P.M. Mr. Roy Murray, Entomologist, Jamaica Federation of Commercial Apiaries

3:30 P.M. – 3:40 P.M. Mr. Andreas W. Sperlich, Bee-O-Sphere Technologies

3:40 P.M. – 3:50 P.M. Mr. Michael Ramsay, Registrar, PCA

## **Feedback and Discussion**

3:50 P.M. – 4:50 P.M.

## **Closing Remarks/Way Forward**

4.50 P.M. – 5:00 P.M. Dr. Dwight Robinson Public Relations Officer, CASJ

## **Refreshments**



# The Caribbean Academy of Sciences, Jamaica (CASJ)

Robert Lancashire (rjlanc@caswi.org)



To **Bee** or not to **Bee**, that is the question-  
whether 'tis Nobler in the mind to suffer  
the **Stings** and Arrows of outrageous Fortune,  
or to take Arms against a Sea of troubles,  
and by opposing end them? To die, to sleep—

*Nunnery Scene – Hamlet*

*With apologies to William Shakespeare*

# Ivan Miles Goodbody (CAS Fellow)

21 September 1926 – 16 April 2014

Professor Ivan Goodbody came to Jamaica in 1955 from the University of Aberdeen, to take up the post as Lecturer in Zoology at the young University College of the West Indies. He moved on to become Senior Lecturer in Zoology at University of the West Indies in 1962 and quickly became Professor and Head of the Department of Zoology in 1964, a post he retained until 1986. He then went on to become the founder and first Director, Marine Science Unit from 1986-1989.



He was the recipient of the Institute of Jamaica - Silver Musgrave Medal, 1974 for contributions to science and the Order of Distinction, Commander Class (Honorary) awarded in the Jamaican National Honours 1979, for contributions in the field of Marine Biology.

He was a Fellow of the Caribbean Academy of Sciences and a staunch supporter of the Academy.

*Seen here with Prof Tara Dasgupta and Prof Bert Fraser –Reid after a CAS seminar.*

# The Caribbean Academy of Science-

<http://www.caswi.org>



The Caribbean Academy of Sciences (CAS) was inaugurated in Trinidad and Tobago in May 1988 as a regional non-profit organization. It acts as an important authoritative voice on science and technology in the region.

The Academy has divisions that cover the natural, agricultural, medical, engineering and social sciences with a current membership of over 200 including scientists from the English-speaking Caribbean, Guadeloupe, Cuba, Guyana and Suriname.

CAS is supported by Chapters and holds Biannual General Meetings.

In 2012 the meeting was held in Barbados and the next meeting is planned for **21-23 Nov 2014 in Tobago**.

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### Guyana Chapter

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# The objectives of CAS are:

- To provide a forum for interchange of ideas among scientists on important issues related to the application of Science and Technology
- To serve as a source of advice to regional governments and regional governmental and non-governmental organizations in scientific and technological matters.
- To facilitate cooperation among scientists and promote the execution and coordination of scientific research in all its aspects
- To liaise with relevant research organisations and assist in facilitating their mutual interaction

# The objectives of CAS continued:

- To recognise and reward outstanding performance and achievement within the region in the fields of Science and Technology
- To undertake, and collaborate in, the collation and publication of results of scientific research
- To raise the level of scientific consciousness in the region, and increase the public understanding and appreciation of the importance and potential of Science and Technology in human progress
- To establish and maintain high standards of ethics in all scientific endeavours



# CAS and CASJ -ACTIVITIES

The Jamaica Chapter began in 2002 and CASJ became legally Registered in Jamaica as a charitable organisation (# 81184 – November 23, 2010)

CASJ has contributed towards the preparation of a number of Flagship research projects, including:

- (1) Promotion of Open Access Policies.
- (2) Sustainable Energy in Latin America and the Caribbean;
- (3) Mathematics Education;
- (4) Understanding and Managing Risk associated with Natural Hazards;
- (5) Biodiversity Knowledge and Research Needs for Latin America and the Caribbean.

# Open Access

In November 2012 the Caribbean Academy of Science, Jamaica established an Open Access Repository (OAR) and promoted an Open Access Policy (OAP). The policy goals are as follows:

- To provide open access to scholarly output resulting from academic activities undertaken at all tertiary level institutions.
- To provide long-term preservation of all research output
- To increase the visibility and impact of research output
- To enhance collaboration with the global research community

# CAS e-journal, hosted at UWI, MONA



## e-Journal of the Caribbean Academy of Sciences

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**Vol 6, No 2 (2012)**

Conference Papers and Abstracts

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Domestic Solar Energy: A viable Alternative in Trinidad and Tobago? Case Study: HDC Housing. Part 2- The Economic Analysis [ABSTRACT](#) [PDF](#)  
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Global Warming - How Reliable Are the Surface Air Temperature Data? [ABSTRACT](#) [PDF](#)  
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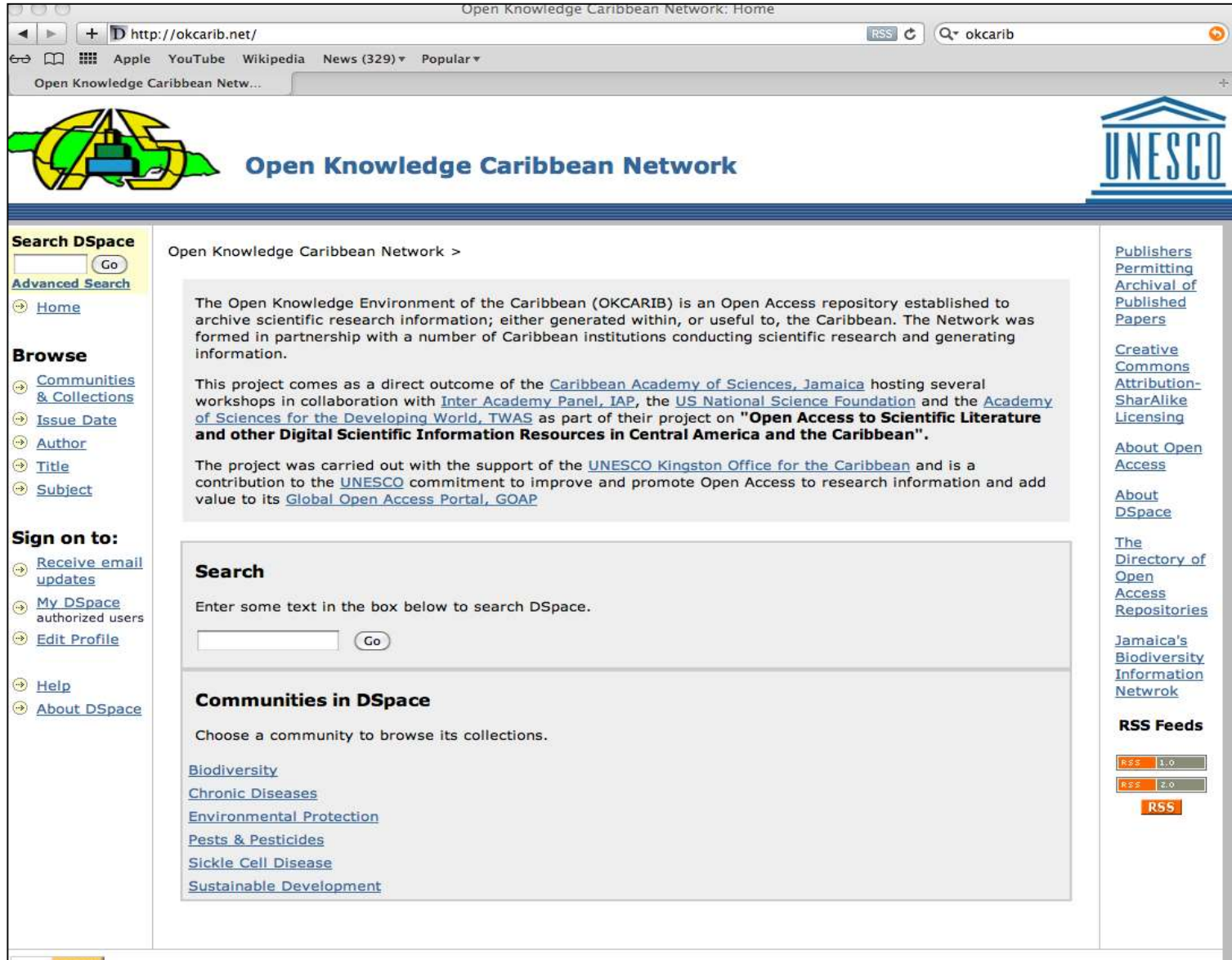
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# CAS OKCarib.net

## established with support from UNESCO





The screenshot shows the OKCarib.net website in a web browser. The browser's address bar displays 'http://okcarib.net/'. The website's header features a logo on the left and the UNESCO logo on the right. The main content area is titled 'Open Knowledge Caribbean Network' and contains a description of the network, its origins, and its goals. A search bar is located in the center, and a list of communities is provided at the bottom. The left sidebar includes a search bar, a 'Browse' section with links to various categories, and a 'Sign on to:' section with links for email updates, DSpace account management, and help. The right sidebar contains links to 'Publishers Permitting', 'Creative Commons Attribution-ShareAlike Licensing', 'About Open Access', 'About DSpace', 'The Directory of Open Access Repositories', 'Jamaica's Biodiversity Information Network', and 'RSS Feeds'.

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Open Knowledge Caribbean Network >

The Open Knowledge Environment of the Caribbean (OKCARIB) is an Open Access repository established to archive scientific research information; either generated within, or useful to, the Caribbean. The Network was formed in partnership with a number of Caribbean institutions conducting scientific research and generating information.

This project comes as a direct outcome of the [Caribbean Academy of Sciences, Jamaica](#) hosting several workshops in collaboration with [Inter Academy Panel, IAP](#), the [US National Science Foundation](#) and the [Academy of Sciences for the Developing World, TWAS](#) as part of their project on "**Open Access to Scientific Literature and other Digital Scientific Information Resources in Central America and the Caribbean**".

The project was carried out with the support of the [UNESCO Kingston Office for the Caribbean](#) and is a contribution to the [UNESCO](#) commitment to improve and promote Open Access to research information and add value to its [Global Open Access Portal, GOAP](#)

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**RSS Feeds**

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# CASJ 2013 presentations

- CAS, Jamaica hosted a Presentation by Dr. Raymond McEachin "Mathematics Education in the Caribbean: Somebody Ought to do Something", Thursday, March 7, 2013 @ 2:30 p.m., M3 Lecture Theatre, (UWI Campus)
- CAS, Jamaica presented a Panel Discussion, "Climate Change Education in Jamaica: Integrated or Insignificant". The panelists were: Dr Barbara Carby, Director of the Disaster Risk Reduction Centre (DRRC) and Prof Ian Boxhill, Carlton Alexander Professor of Management and Director of the Centre for Tourism and Policy Research. The Moderator was Tracy-Ann Hyman from the Climate Studies Group at UWI, Mona. Held Thursday, May 29, 2013 @ 2:30 p.m., C5 lecture theatre (UWI Campus)
- CAS, Jamaica hosted a presentation by Prof Anthony Clayton on "Future Earth - the new science and technology alliance for global sustainability", Wednesday June 26, 2013 @ 3:30 p.m. in C5 Lecture Theatre, (UWI Campus)

# Local and Regional Challenges

Potential Barriers – small critical mass of researchers, cash strapped and heavily indebted Governments and Institutions

## Your involvement needed.

Membership of the Academy:

Any citizen or resident of the Caribbean region who has produced and published scientific work of a high standard is eligible to be an Ordinary Member. Nomination to membership shall be via a Nomination Form sent to the Secretary (or Secretary of a local Chapter). Each nomination form shall be signed by two persons who are either Ordinary members or Fellows of CAS in good financial standing and must be accompanied by a curriculum vitae for the nominee.

Nominations from Members are needed for the Executive of the CAS Jamaica Chapter:

Attendance at Meetings:

Meetings are open to the public