



# The Caribbean Academy of Sciences

## 25<sup>th</sup> Anniversary Celebrations 19<sup>th</sup> General Meeting and Biennial Conference

at the **MAGDALENA GRAND BEACH RESORT**  
21 – 23 November 2014  
**Tobago, West Indies**

FIRST ANNOUNCEMENT

**"Harnessing Science & Technology To Create  
Knowledge-Based Economies  
And Preserve Caribbean Ecosystems."**

Abstracts for Oral and Poster Presentations in all  
areas of Natural and Social Sciences are invited

## INTRODUCTION

The 19<sup>th</sup> General Meeting of The Caribbean Academy of Sciences (CAS) is the second to be held in the beautiful island of Tobago which forms one half of the twin island state of Trinidad and Tobago. The Biennial Conference, which is being held in collaboration with The Tobago House of Assembly, will commence on the evening of November 21<sup>st</sup>, 2014 with an impressive opening ceremony.

The theme of the Conference is **“Harnessing Science And Technology To Create Knowledge-Based Economies And Preserve Caribbean Ecosystems.”**

One of the main objectives of the Conference is to assemble regional and international natural scientists, social scientists and engineers to deliberate and focus their thoughts on the two areas identified in the theme. Using the best available models, one fraction of the scientists will be encouraged to develop road-maps suggesting ways towards the establishment of knowledge-based economies in the Caribbean region. Another fraction of the scientists will be required to propose steps that might reverse some aspects of climate change and strategies that could minimize the adverse effects of climate change on the fragile ecosystems of the Caribbean.

A second major objective of the Conference is to provide an opportunity, via parallel scientific sessions, for experts from the region’s Universities, Research Centres and Industry to come together to present their research, industrial and developmental findings for critical analysis. The scientific programme will consist of plenary lectures by invited experts and short papers of 20 minutes total duration by participants. Short papers may be in any area of natural science and social science, including Agriculture, Medicine, Veterinary Medicine, Anatomy, Physiology, Pharmacology, Chemistry, Biochemistry, Biology, Biotechnology, Energy, Food Science, Physics, Engineering, Education, Economics and Health Economics.

**Note: The Academy’s General Meeting, for financial members, takes place on November 21<sup>st</sup>, 2014 from 1:15 pm – 4.00 pm.**

## PREPARATION OF ABSTRACTS

Abstracts for each oral and poster presentation must be submitted via electronic mail by **August 31<sup>st</sup> 2014**.

Abstracts must be typed to fit on a single sheet of letter size paper (8.5” x 11”) using Times New Roman in Microsoft Word 97-2003 as minimum.

**Typing should be fully justified with one-inch margins at the top and at each side; a minimum of one-inch must be left at the bottom of the page. The entire abstract, including title, name of the author (s), affiliation (s), text and acknowledgements should be typed within these limits.**

The abstract Title should be centred and **bold**, “title style”, in Times New Roman (12-point font). On the next line the Author(s) name(s), (11-point font, **in bold**) should be written as initial(s) followed by family name(s). Author(s) name(s) must be centred and separated by semicolons, underlining the name of the person who will present the paper. On the next line, the institution(s) of the author(s) must be typed in italics and centred. When authors originate from different institutions, the authors and the institutions should be numbered using superscripts to the top right of the names and the top left on the institutions.

The body of the abstract (**without any sub-headings**) should be in 11-point font and should start two line spaces below the institutions identification. The text should be typed using one and a half line spacing with one extra space separating paragraphs. Paragraphs should not be indented.

It is suggested that abstracts include: A definition of the problem, a working hypothesis, main methods or techniques employed, results, discussions and conclusions.

**A Sample Abstract follows**

## SAMPLE ABSTRACT

### **Nurseries And The Conservation Of Guyana's Mangroves: A Preliminary Survey Of Insect Pests In Mangrove Nurseries In Guyana.**

**P. Da Silva<sup>1</sup>; S. Gillis<sup>2</sup>**

<sup>1</sup>*University of Guyana, Berbice Campus, Guyana;* <sup>2</sup>*University of Guyana, Turkeyen Campus, Guyana.*  
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Mangrove ecosystems have long been recognised for their ecological, economic, social and coastal protection values. In Guyana mangrove ecosystems are now being recognised for their role in alternative livelihood options. In an effort to assist in combating climate impacts the Government of Guyana has embarked on a conservation project that seeks to rehabilitate coastal mangrove ecosystems and thus mangrove nurseries have been gaining recognition for its role in this process and also as an alternative livelihood option. In this regard mangrove nurseries have been established by private individuals who are contracted by the Guyana Mangrove Restoration Project (GMRP) to supply mangrove seedlings.

Being a new venture in Guyana there was not much information on the potential challenges that could have been anticipated. This preliminary study sought to investigate and document the challenges faced by nursery operators in the production of *Avicennia germinans* seedlings. Specifically the investigation sought to document the types of insect pests that affected mangrove (*Avicennia germinans*) seedlings in established nurseries. The method entailed the use of a questionnaire and checklist and onsite observations to identify the various types of insect pests.

A number of challenges faced by nursery operators were identified. Insect pests from five (5) taxonomic orders and six (6) families were found to be common in the nurseries surveyed. These were observed in the growing seedlings at various leaf development stages. Representatives from the Order Lepidoptera and the Family Nymphalidae were most prevalent. Identification of these challenges and insect pests is an important step in the operation and management of mangrove nurseries.

## PREPARATION OF POSTERS

Posters should be a maximum of **107 x 107 cm (42" x 42")**. A maximum of two posters per person will be allowed.

The following information should appear on each poster:-

- |                          |  |
|--------------------------|--|
| a. Title                 | b. Poster number (as assigned)             |
| c. Name(s) of Author (s) | d. Names of each Author(s) Institution (s) |
| e. Abstract              | f. Introduction                            |
| g. Methods               | h. Results (including tables and figures)  |
| i. Discussion            | j. Conclusions                             |
| k. References            |  |

## CAS-TWAS YOUNG SCIENTIST AWARD

Applications are invited for the CAS-TWAS Young Scientist Award for 2014. The Award is worth US\$2000.00. The following conditions apply:-

1. The Award shall be given to the individual who has done the most to advance the progress of Scientific Research as judged by the quality of his/her publications and/or patents in one of the following fields:- Chemistry, Mathematics, Life Sciences, Physics and Engineering.
2. The age of the applicant must not exceed 40 years during the year of the Award and must be a resident of the Caribbean region. Most of the research must also have been done in the Caribbean region. An individual can only receive one such Award.
3. The recipient of the Award will be expected to make a Scientific Presentation at the 19<sup>th</sup> Meeting of The Academy to be held in Tobago in November 2014.
4. It is to be understood that by accepting this award, the recipient is agreeing to present an update of his/her research at the subsequent CAS biennial Conference.
5. Nominations for the 2014 Award (on the required forms) should reach the Office of the CAS Secretariat by July 30<sup>th</sup> 2-14. (Visit the CAS website at <http://www.caswi.org> for forms.

### Conference Time Table (November 2014)

<b>Day 1</b>	November 21 <sup>st</sup>	11.00 am – 1:30 pm	Registration
		1.15 pm – 4.00 pm	CAS General Meeting
		7.00 pm – 10.00 pm	Opening Ceremony/cocktail Reception
<b>Day 2</b>	November 22 <sup>nd</sup>	8.30 am – 4.30 pm	Main Conference <ul style="list-style-type: none"> <li>• Oral and Poster Presentations</li> </ul>
		7.30 pm	A Taste of Tobago Culture
<b>Day 3</b>	November 23 <sup>rd</sup>	8.30 am – 4.30 pm	Main Conference <ul style="list-style-type: none"> <li>• Oral and Poster Presentations</li> <li>• Closing Ceremony</li> </ul>

### REGISTRATION

Registration for the Conference can be done by Post, Fax or E-Mail. Note that registration will only be considered to have been completed on receipt of the appropriate fee.

#### Registration Fees

Payable in US Dollars US\$	Before June 30, 2014 US\$	After July 1, 2014 US\$
Members	250	300
Non-Members	300	350
Students <ul style="list-style-type: none"> <li>• Caribbean</li> <li>• International</li> </ul>	150 200	200 250

## ACCOMMODATION

The designated hotel for the Conference is Magdalena Grand Beach Resort, Tobago Plantations Estate, Lowlands, Tobago. Special rates apply to registered participants. The special rates are applicable up to three days before and three days after the Conference. Please indicate that you will be attending the Conference when booking.

**Contacts for Magdalena Grand Beach Resort are:-**

**Telephone: 868-660-8500**

**US Toll Free: 866-353-6222**

**Fax: 868-660-8810**

**Reservations: 868-660-8800**

**E-Mail: [info@MagdalenaGrand.com](mailto:info@MagdalenaGrand.com)  
[reservations@MagdalenaGrand.com](mailto:reservations@MagdalenaGrand.com)**

**Check In Time: 3.00 pm (Early check in possible)**

**Check Out Time: 12.00 noon**

<b>Room Category</b>	<b>Rates in US\$ Per Night</b>
Deluxe (Single/Double) Rooms	<b>228</b>

Rates are inclusive of all taxes and include full buffet breakfast.

## ENTITLEMENTS TO THE FEE PAYING PARTICIPANT

In addition to conference literature, payment of conference fees entitles participants to lunch, and snacks served during the refreshment breaks and to attend the Opening Ceremony.

## REGISTRATION FEE: METHOD OF PAYMENT

Payment of the registration fee can be made by US\$ Bank draft payable to The Caribbean Academy of Sciences at the Republic Bank Limited, UWI Branch, St. Augustine, Trinidad and Tobago. Participants holding T&T Accounts may pay the US\$ equivalent by cheque. **\*\*\*US\$1.00 equivalent is TT\$6.55.**

All registered participants should travel to the Conference with their proof of payment.

**CONTACT INFORMATION**

Persons planning to attend the Conference are requested to complete the Registration Form and return it to one of the two addresses shown below.

**RETURN COMPLETED REGISTRATION FORM AND FEES TO:-**

<p><b>CAS Secretariat</b> c/o Mrs. Carol-Ann Crossley Room 1 East, Block 13 Faculty of Engineering The University of the West Indies St. Augustine Trinidad and Tobago, West Indies</p> <p><b>Contacts:</b> Telephone: 1-868-793-2351 Or 1-868-662-2002 Ext. 84469 E-Mail: <a href="mailto:secretariat@caswi.org">secretariat@caswi.org</a></p>	<p><b>The Conference Secretariat</b> c/o Dr. Trevor Alleyne Unit of Biochemistry Faculty of Medical Sciences The University of the West Indies Mt. Hope Trinidad and Tobago, West Indies</p> <p><b>Contacts:</b> Telephone: 1-868-360-0565 Or 1-868-662-1873/662-9294 Fax: 1-868-662-1873 E-Mail: <a href="mailto:trevor.alleyne@gmail.com">trevor.alleyne@gmail.com</a></p>
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For Conference updates, visit the CAS website: <http://www.caswi.org>