

SEVENTH  
**NATURAL PRODUCTS SYMPOSIUM**  
**Mona, Jamaica**

January 9th to 13th

1978



**SCIENTIFIC PROGRAMME**  
**and**  
**ABSTRACTS OF PAPERS**

Department of Chemistry  
**UNIVERSITY OF THE WEST INDIES**

## **ORGANISING COMMITTEE**

W. R. Chan (Chairman)

K. E. Magnus (Head of Department)

V. G. Box

B. A. Burke (Organising Secretary)

S. J. Clarke

R. K. Kallury

K. O. Pascoe

E. R. Roberts (Treasurer)

## **ACKNOWLEDGEMENT**

The Organising Committee thanks the Inter-University Council, London, the Research and Publications Fund Committee of The University of the West Indies, Esso (West Indies) Ltd. , and National Trading Company for their support of this Symposium.

SCIENTIFIC PROGRAMME

MONDAY, JANUARY 9th

Morning

8.30-9.00

Completion of Registration

9.00-9.30

Opening Address:

The Hon. Eric Bell,  
Minister of Education.

9.45-10.45

Main Lecture

B. Fraser-Reid - Carbohydrate derivatives  
in asymmetric syntheses of natural products.

11.05-11.30

Coffee

Short Papers

11.30-11.50

Masami Nakane, K.C. Mattes, C.R. Hutchinson,  
J.J. Partridge and M.R. Uskokovic - A stereo-  
specific total synthesis of (+)-1-O-CH<sub>3</sub>-seco-  
loganin and (+) 1-O-CH<sub>3</sub>-sweroside.

11.50-12.10

Amos B. Smith, III, P.M. Wovkulich, S.J. Branca  
and M.A. Guaciario - An initial assault on a  
total synthesis of jatrophone.

12.10-12.30

L.J. Chinn and K.W. Salamon - A novel total  
synthesis of the 9-deoxy-11-oxygenated  
prostanoids.

Afternoon

2.30-3.30

Main Lecture

E. Wenkert - Alkaloid Synthesis

3.45-4.00

Coffee

Short Papers

4.00-4.20

P. Sierra, J. Dolejs and L. Novotny - A new  
indolic alkaloid from Rauwolfia salicifolia  
Griseb.

4.20-4.40

G.S. Wu, D. Soerens, E. Yamanaka, and  
J.M. Cook - Pictet-Spengler reactions in  
aprotic media; synthesis of pyridindolol,  
a  $\beta$ -galactosidase inhibitor from Streptomyces  
alboverticillatus.

TUESDAY, JANUARY 10th

Morning

9.00-10.00

Main Lecture

S. Danishefsky - New strategies for the stereospecific total synthesis of natural products.

10.20-10.40

Coffee

Short Papers

10.40-11.00

B.A. Burke and H. Parkins - Chromenylated B-phenylethylamides from Amyris plumieri (Rutaceae).

11.00-11.20

L.J. Mulheirn - The structure and biosynthesis of the aurovertins, biologically active metabolites of Calcarisporium arbuscula.

11.20-11.40

M.P. Cava - Oxoaporphine alkaloids from Abuta splendida.

11.40-12.00

S.J. Gould - The biosynthesis of streptonigrin.

Afternoon

2.30-3.30

Main Lecture

J.K. Sutherland - Epoxyolefin cyclisations.

3.45-4.00

Coffee

Short Papers

4.00-4.20

B.A. Burke, W.R. Chan and K.O. Pascoe - The structure and stereochemistry of caesalpin-G.

4.20-4.40

R. Parry - The biosynthesis of lipoic acid from octanoic acid.

↳ Rescheduled on Friday 10.40-11.00 AM

WEDNESDAY, JANUARY 11th

Morning

9.00-10.00

Main Lecture

A. Ballio - Fusicoccinoids - A family of microbial growth metabolites with plant growth-promoting activity.

10.20-10.40

Coffee

Short Papers

10.40-11.00

I. Perez and R. Iglesias - Alkaloids from Tabernaemontana amblyocarpa Urb.

11.00-11.20

G.D. Prestwich - Termite chemical warfare: New natural products.

11.20-11.40

P.W. LeQuesne - Lychnophorolide A, a novel antitumour-active sesquiterpenoid having both  $\alpha$ -methylene- $\gamma$ -lactone and furadienone functions.

11.40-12.00

C. Salemink - The isolation, structure determination and synthesis of some pyrolytic products from cannabidiol.

Afternoon

12.00-12.20 → P. Deslongchamps - o'8 exchange in the basic hydrolysis of amides.

2.30-3.30

Main Lecture

J. McMurry - A new synthesis of cardiac aglycones.

3.50-4.10

Coffee

Short Papers

4.10-4.30

A. Caron, C. Agami and A. Kasakos - The crystalline and molecular structure of the steroid 17 $\beta$ -acetoxy-5 $\alpha$ -cyano-androstan-3-one,  $\text{CH}_{22}\text{H}_{31}\text{O}_3\text{N}$ .

4.30-4.50

J.R. Williams and J.F. Blount - The structure and photochemistry of lumiprednisone acetate.



FRIDAY, JANUARY 13th

Morning

9.00-10.00

Main Lecture

A. Pelter - The structures of bonellin and related physiologically active marine products.

10.20-10.40

Coffee

Short Papers

10.40-11.00

*Rescheduled  
on Tuesday 4-2 PM*

David E. Cane - The application of deuterium magnetic resonance to biosynthetic studies. The stereochemistry of a biological  $S_N2'$  reaction during rosenonolactone biosynthesis.

11.00-11.20

L.J.J. Mestichelli, R.N. Gupta and I.D. Spenser - The biosynthetic route from ornithine to proline.

11.30-12.30

Main Lecture

*Rescheduled  
on 9-00 - 10-00 A.M.  
Wednesday.*

R. Mechoulam - Cannabinoid metabolism and metabolites.

## REGISTERED VISITING PARTICIPANTS

BALLIO, A.	MECHOULAM, R.
CANE, D.E.	MULHEIRN, L.J.
CARON, A.	PARRY, R.
CAVA, M.P.	PELTER, A.
CHINN, L.J.	PEREZ, I.
COOK, J. M.	PRESTWICH, G.D.
DANISHEFSKY, S.	SALEMINK, C.A.
DESLONGCHAMPS, P.	SIERRA, P.
DESLONGCHAMPS, S.E.	SMITH, A.B. ,111
EKUNDAYO, O.	SPENSER, I.D.
FRASER-REID, B.	SUTHERLAND, J.K.
GOULD, S.J.	TAILLEFER, R.J.
HUTCHINSON, C.R.	TROTZ, U.O.D.
KUTNEY, J.P.	WASSERMAN, H.H.
LeQUESNE, P.W.	WEISS, U.
MacLEAN, D.B.	WENKERT, E.
McMURRY, J.	WILLIAMS, J.R.