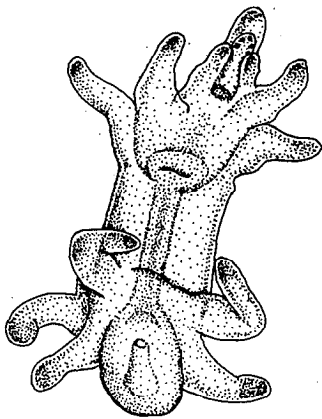
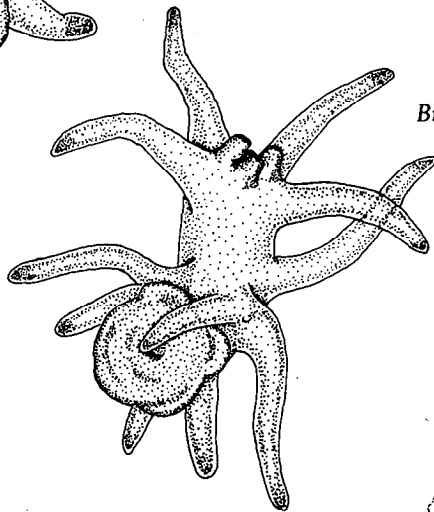


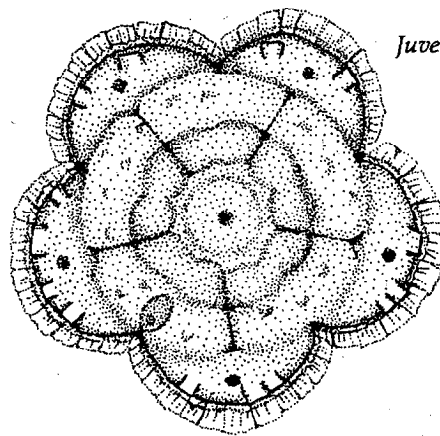
# PROGRAM AND LIST OF PARTICIPANTS



*Bipinnaria larva*



*Brachiolaria larva*



*Juvenile Starfish*

## **Program**

### **Objectives of the workshop:**

1. To present recent research findings about the crown-of-thorns starfish relevant to determining the possible causes and consequences of outbreaks.
2. To review the current status of the research program.
3. To discuss and recommend possible future research directions.

**WEDNESDAY 10 JUNE 1992**

#### **0830 Opening Address**

*Mr Graeme Kelleher* (Chairman GBRMPA)

*Prof John Swan* (Chairman COTSREC)

### **SESSION 1: THE POSSIBLE CAUSES OF OUTBREAKS**

(Chair: *Dr William Gladstone* / GBRMPA)

0845 "Seasonal changes in fertility and fecundity in *Acanthaster planci*".

*Dr Russ Babcock & Mr Craig Mundy* (AIMS)

0905 "Resource availability to the larvae of the crown-of-thorns starfish in Great Barrier Reef waters: an overview".

*Dr Tenshi Ayukai* (AIMS)

0925 "Is *Acanthaster planci* able to utilise dissolved organic matter (DOM) to satisfy the energetic requirements of larval development?".

*Dr Ove Hoegh-Guldberg* (USYD)

0945 "In situ rearing of crown-of-thorns larvae."

*Mr Ken Okaji* (JCU)

1005 "Field measurement of survival rates of juvenile *Acanthaster planci*: techniques and preliminary results".

*Dr John Keesing & Mr Andrew Halford* (AIMS)

1025 "An experimental investigation of the ability of adult crown-of-thorns starfish to survive physical damage".

*Dr Hugh Sweatman & Mr Ian Butler* (JCU)

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#### **1045 MORNING TEA**

1100 "Are crown-of-thorns starfish populations chaotic ?

Would it matter if they were ?

*Dr Hamish McCallum* (UQ)

1120 "Are the hydrodynamics guilty of causing or stimulating outbreaks of crown-of-thorns starfish on the Great Barrier Reef ?"

*Dr Kerry Black et al.* (VIMS)

1140 "Some perspectives on the *Acanthaster* phenomenon".

*Dr Leon Zann* (GBRMPA)

1200 "Life history characteristics of *Acanthaster planci* (L.) populations, potential clues to causes of outbreaks".

*Mr Richard Stump* (JCU)

1220 *Discussion on the possible causes of outbreaks.*

1245 LUNCH

## SESSION 2: THE CONSEQUENCES OF OUTBREAKS

(Chair: *Dr Leon Zann* / GBRMPA)

1345 "CotSim: Scientific visualisation and gaming-simulation for the *Acanthaster* phenomenon".  
*Mr James Scandol* (JCU)

1405 "Consequences of outbreaks: relationships between spatial scales of outbreaks and temporal scales of recovery".  
*Dr Craig Johnson & Ms Ann Preece* (UQ)

1425 "Long-term response of herbivorous fish to crown-of-thorns starfish outbreaks".  
*Mr Tony Hart* (AIMS)

1445 "Effects of *Acanthaster* predation on bioerosion: design and preliminary results".  
*Ms Barbara Musso* (JCU)

1505 *Discussion on the consequences of outbreaks.*

1530 AFTERNOON TEA

## SESSION 3: MANAGEMENT OPTIONS AND THE FUTURE OF THE COTS PROGRAM

(Chair: *Mr Simon Woodley* / GBRMPA)

### SUGGESTIONS FOR FUTURE RESEARCH

1545 Measuring settlement rates of COTS larvae.  
*Dr John Keesing* (AIMS)

1555 Future research into predation on COTS.  
*Dr Hugh Sweatman* (JCU)

### COTS CONTROLS:

1605 "The history of crown-of-thorns starfish controls on the Great Barrier Reef and an assessment of future needs for controls".  
*Dr William Gladstone* (GBRMPA)

1620 "A management approach to the COTS question".  
*Mr Graeme Kelleher* (GBRMPA)

1635 "The need for a crown-of-thorns starfish contingency plan".  
*Dr Brian Lassig* (GBRMPA)

1650 *General Discussion*

1720 END OF WORKSHOP

**List of workshop participants (*in alphabetical order*):**

Dr Tenshi Ayukai	AIMS	Dr Dave Klumpp	AIMS
Dr Russ Babcock	AIMS	Dr Brian Lassig	GBRMPA
Ms Valonna Baker	AIMS	Dr Hamish McCallum	UQ
Ms Debbie Bass	AIMS	Mr Ian Miller	AIMS
Dr Kerry Black	VIMS	Dr Peter Moran	AIMS
Mr Jon Brodie	GBRMPA	Mr Craig Mundy	AIMS
Mr Ian Butler	JCU	Ms Barbara Musso	AIMS
Prof Howard Choat	JCU	Mr Ken Okaji	JCU
Dr Wendy Craik	GBRMPA	Dr Michel Pichon	AIMS
Ms Robyn Cumming	JCU	Mr Bob Pearson	QDPI
Prof Peter Davies	USYD	Ms Ann Preece	UQ
Mr Udo Engelhardt	GBRMPA	Ms Katrina Roper	JCU
Dr William Gladstone	GBRMPA	Prof John Swan	COTSREC
Mr Tony Hart	AIMS	Dr Hugh Sweatman	JCU
Dr Ove Hoegh-Guldberg	USYD	Mr James Scandol	JCU
Dr Terry Hughes	JCU	Mr Andy Steven	GBRMPA
Dr Craig Johnson	UQ	Mr Richard Stump	JCU
Mr Dave Johnson	AIMS	Mr Simon Woodley	GBRMPA
Dr John Keesing	AIMS	Dr Leon Zann	GBRMPA
Mr Graeme Kelleher	GBRMPA		

**Institutions and organisations:**

Australian Institute of Marine Science (AIMS)

Crown-of-Thorns Starfish Research Committee (COTSREC)

Great Barrier Reef Marine Park Authority (GBRMPA)

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James Cook University (JCU)

Queensland Department of Primary Industries (QDPI)

University of Queensland (UQ)

University of Sydney (USYD)

Victorian Institute of Marine Sciences (VIMS)