

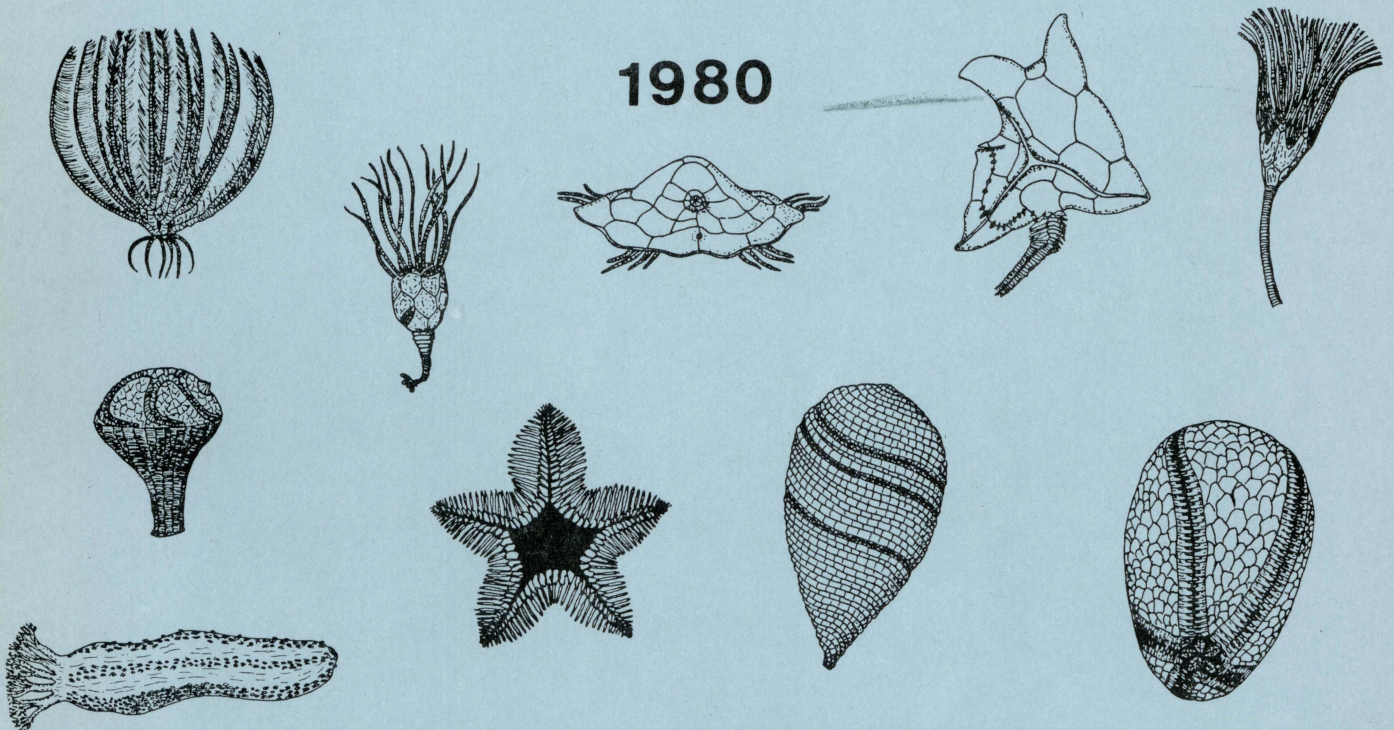
# ECHINODERMS

## NOTES FOR A SHORT COURSE

Co-Edited by

Thomas W. Broadhead and Johnny A. Waters

1980



UNIVERSITY of TENNESSEE  
DEPARTMENT of GEOLOGICAL SCIENCES  
STUDIES in GEOLOGY 3

Prepared for the Short Course on Echinoderms sponsored by  
the Paleontological Society and  
the Southeastern Section of the Paleontological Society  
held at Atlanta, Georgia, November 16, 1980

PROGRAM

TIME	SPEAKER	TOPIC
9:00	Johnny A. Waters	Introduction-What is an echinoderm?
9:10	David L. Meyer	Ecology and Biogeography of Living Classes
9:30	James Sprinkle	An Overview of the fossil record
9:50	Ronald Lewis	Taphonomy
10:05	QUESTIONS	
10:15	Thomas W. Broadhead	Biostratigraphic Potential
10:35	William I. Ausich	Synecology-Niche Differentiation
10:55	Johnny A. Waters	Echinoderms and Aspects of Evolutionary Theory
11:10	James Sprinkle	Early Diversification
11:30	QUESTIONS	
11:40	Porter M. Kier	Echinoid Behavior (FILM)
12:00	LUNCH	
1:00	Bruce N. Haugh and Bruce M. Bell	Classification Schemes
1:20	Ronald L. Parsley	Homalozoa
1:35	Thomas W. Broadhead	Blastozoa
1:50	D. Bradford Macurda, Jr.	Blastoidea
2:05	Ronald L. Parsley	Paracrinoidea
2:20	QUESTIONS	
2:35	N. Gary Lane and Gary D. Webster	Crinoidea
3:15	Bruce M. Bell	Edrioasteroidea and Edrioblastoidea
3:30	David L. Pawson	Holothuroidea
3:45	QUESTIONS	
4:00	Porter M. Kier	Echinoidea
4:30	Jon W. Branstrator	Paleozoic Asterozoa
4:45	Daniel B. Blake	Post-Paleozoic Asterozoa
5:00	QUESTIONS AND CLOSING STATEMENT	

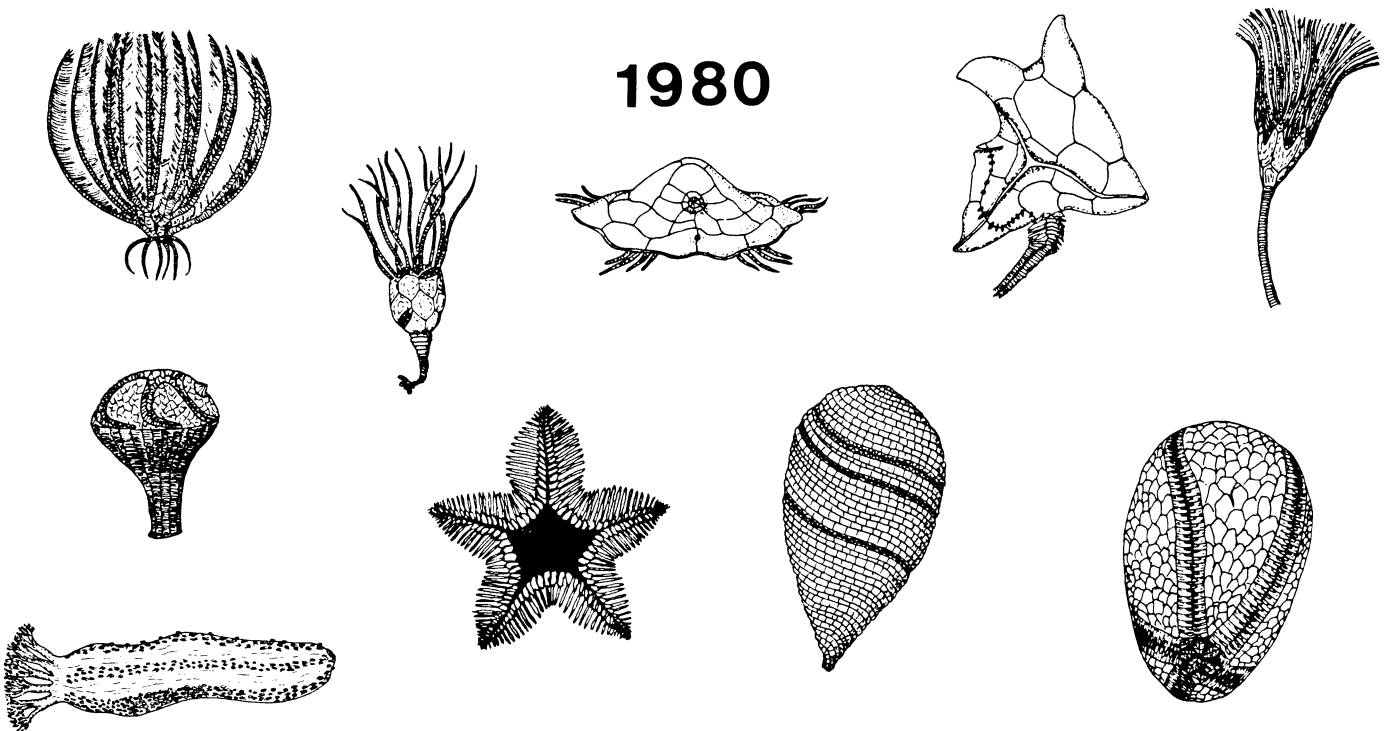
# ECHINODERMS

## NOTES FOR A SHORT COURSE

Co-Edited by

Thomas W. Broadhead and Johnny A. Waters

1980



UNIVERSITY of TENNESSEE

DEPARTMENT of GEOLOGICAL SCIENCES

STUDIES in GEOLOGY 3

Prepared for the Short Course on Echinoderms sponsored by  
the Paleontological Society and  
the Southeastern Section of the Paleontological Society  
held at Atlanta, Georgia, November 16, 1980

## CONTENTS

Program . . . . .	inside front cover
Preface . . . . .	ii
Dedication . . . . .	ii
Participants . . . . .	iv
Ecology and Biogeography of Living Classes by David L. Meyer . . . . .	1
An Overview of the Fossil Record by James Sprinkle . . . . .	15
Taphonomy . . . . . by Ronald Lewis . . . . .	27
Biostratigraphic Potential . . . . . by Thomas W. Broadhead . . . . .	40
Synecology - Niche Differentiation . . . . . by William I. Ausich . . . . .	59
Echinoderms and Aspects of Evolutionary Theory . . . . . by Johnny A. Waters . . . . .	73
Early Diversification . . . . . by James Sprinkle . . . . .	86
Classification Schemes . . . . . by Bruce N. Haugh and Bruce M. Bell . . . . .	94
Homalozoa . . . . . by Ronald L. Parsley . . . . .	106
Blastozoa . . . . . by Thomas W. Broadhead . . . . .	118
Blastoidea . . . . . by D. Bradford Macurda, Jr. . . . .	133
Paracrinoidea . . . . . by Ronald L. Parsely . . . . .	139
Crinoidea . . . . . by N. Gary Lane and Gary D. Webster . . . . .	144
Edrioasteroidea and Edrioblastoidea . . . . . by Bruce M. Bell . . . . .	158
Holothuroidea . . . . . by David L. Pawson . . . . .	175
Paleozoic Asterozoa . . . . . by Jon W. Branstrator . . . . .	190
Post-Paleozoic Asterozoa . . . . . by Daniel B. Blake . . . . .	200
References . . . . .	215