

Biological and Management Perspectives on Stress Responses in Fish: “Catch & Release” and Other Human- derived Impacts

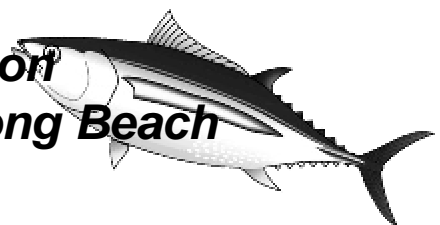
***A Symposium at the Annual Meeting
of the
Southern California Academy of Sciences***

In this symposium, experts from around the United States and region will focus their attention on the biological impacts of fishing-induced stress, as well as stress derived from other sources such as long-term captivity or pollution. What is presently known about the secondary impacts of stress responses will be emphasized, particularly how induced stress factors (e.g., hormones) impact important aspects of physiology and behavior. The potential meaning of the scientific findings to fish, fisheries, and fisheries management will be considered in an open discussion at the conclusion of the symposium.

Co-organizers Kevin M. Kelley and Christopher G. Lowe
For information contact us at 562-985-4918
www.csulb.edu/web/labs/sheephead

Saturday May 15, 2004

***Ballroom B, Student Union
California State University at Long Beach
Long Beach, CA***



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Schedule: May 15th

- 8:50-9:00 am **INTRODUCTION TO THE SYMPOSIUM – ITS PURPOSE AND PLAN.**
K.M. Kelley and C.G. Lowe
- 9:00-9:20 am **THE FISH CASE-STUDY OF THE VERTEBRATE STRESS RESPONSE AND ITS RELEVANCE TO HUMAN-DERIVED IMPACTS IN MARINE FISHES.**
K.M. Kelley, M.M. Galima, J.A. Reyes, K. Sak, D. Topping, K. Goldman, and C.G. Lowe
- 9:20-9:40 am **REGULATION OF STRESS STEROIDS IN MAMMALS AND FISH: COMMON MECHANISMS AND DIFFERENCES.**
M.E. Baker
- 9:40-10:00 am **CATCH-AND-RELEASE STRESS: IMPACTS ON THE ENDOCRINE PHYSIOLOGY OF THE CALIFORNIA SHEEPHEAD, *SEMICOSSYPHUS PULCHER***
M.M. Galima, C.G. Lowe, and K.M. Kelley
- 10:00-10:20 am **PARASITES OF FISHES ASSOCIATED WITH WASTEWATER DISCHARGE AND THE POTENTIAL OF INFESTATION AND STRESS ON HOST FISHES.**
J.E. Kalman.
- 10:20-10:40 am **ALTERED ENDOCRINE PHYSIOLOGY OF SOUTHERN CALIFORNIA FLATFISH COLLECTED NEAR WASTEWATER TREATMENT PLANT (WWTP) OUTFLOW - STRESS AND GROWTH.**
J.A.Reyes, K. Sak, M.M. Galima, J.L Armstrong, and K.M. Kelley
- 10:40-11:00 am **COFFEE BREAK**
- 11:00-12:00 **SCAS PLENARY LECTURE -- Dr. Walter Pittman**
- 12:00-1:20 pm **LUNCH BREAK**
- 1:20-1:40 pm **INTEGRATING PHYSIOLOGICAL AND BEHAVIORAL RESPONSES OF CALIFORNIA SHEEPHEAD EXPOSED TO FISHING-RELATED STRESSORS AND ITS IMPLICATIONS TOWARDS MANAGEMENT.**
C.G. Lowe, D.T. Topping, M.M. Galima, K.J. Goldman, and K.M. Kelley.
- 1:40-2:00 pm **GROWTH AND SURVIVAL IN JUVENILE WHITE SEABASS CAUGHT-AND-RELEASED ON OFFSET CIRCLE AND J-TYPE HOOKS.**
S.A. Aalbers, G.M. Stutzer, and M.A. Drawbridge
- 2:00-2:20 pm **MOLECULAR INDICATORS OF CAPTURE RELATED STRESS IN SHARKS.**
D. Bernal and J. Smith
- 2:20-2:40 pm **THE PHYSIOLOGICAL EFFECTS OF CAPTURE STRESS IN TUNAS, BILLFISHES, AND SHARKS WITH INFERENCES ON POST-RELEASE RECOVERY.**
G.B. Skomal
- 2:40-3:00 pm **CATCH AND RELEASE STRESS IMPACTS ON FISH: INTERGRATING RESEARCH FINDINGS INTO MANAGEMENT DECISIONS AND ANGLER CATCH AND RELEASE PRACTICES**
S.F. Theberge
- 3:00-3:20 pm **DISCUSSION – OPEN PANEL I. Additional and/or Future Questions, Overall Conclusions, Recommendations**
- 3:20-3:40 PM **DISCUSSION – OPEN PANEL II. (additional time if necessary)**