

Monday, 9 July 2007

- 9:00 Pierre Pepin
Chris Chambers *Welcome Address*
- 9:20 Jeff Leis (Plenary
Speaker)
(Page 59) *Connectivity and Dispersal (Chair – Myron Peck)*
ONTOGENY OF BEHAVIOUR IN MARINE FISH
LARVAE: WHY SWIMMING, SENSORY AND
ORIENTATION ABILITIES OF LARVAE ARE
RELEVANT TO DISPERSAL
- 10:00 Mark Dickey-Collas
(Page 33) DOES LARVAL BEHAVIOUR MATTER IN
DYNAMIC ENVIRONMENTS?
- 10:20 Ian Bradbury
(Page 24) ESTIMATING CONTEMPORARY LARVAL
DISPERSAL AND CONNECTIVITY IN AN
ESTUARINE FISH: INTEGRATING MOLECULAR
AND OTOLITH ELEMENTAL APPROACHES
- 10:40 **BREAK**
- 11:00 Ofer Ben-Tzvi
(Page 20) APPLICATION OF PALINDROME SEQUENCE
ANALYSIS (PaSA) OF OTOLITHS IN STUDYING
DISPERSAL PATTERNS OF CHROMIS VIRIDIS
- 11:20 Emanuel Gonçalves
(Page 40) VERY-NEARSHORE LARVAL FISH
ASSEMBLAGES AT THE ARRÁBIDA MARINE
PARK (PORTUGAL)
- 11:40 Marta Moyano
(Page 68) ICHTHYOPLANKTON COMPOSITION AND
DISTRIBUTION DURING THE LATE WINTER
BLOOM IN THE CANARY ISLAND WATERS.
- 12:00 Correy Morris
(Page 66) SPAWNING DISTRIBUTION OF ATLANTIC COD
OVERWINTERING IN SMITH SOUND: A
POTENTIAL MECHANISM OF COD RECOVERY
ALONG THE NORTH EAST COAST OF
NEWFOUNDLAND.
- 12:20 **LUNCH**

Connectivity and Dispersal (Chair – Ian Bradbury)

- 13:20 Frank Hernandez
(Page 44) DEVELOPMENT OF ICHTHYOPLANKTON
VERTICAL DISTRIBUTION MODELS: TESTING
FOR DIEL, ONTOGENETIC AND
ENVIRONMENTAL EFFECTS
- 13:40 David Miller
(Page 64) DOES DIEL VERTICAL MIGRATION OF
SARDINE LARVAE IN THE SOUTHERN
BENGUELA ECOSYSTEM PROMOTE
SUCCESSFUL TRANSPORT TO FAVORABLE
NURSERY AREAS? AN INDIVIDUAL BASED
MODELING APPROACH
- 14:00 Vanessa Thompson
(Page 87) DETERMINING THE MECHANISMS OF
POPULATION SELF-REPLENISHMENT IN
CORAL REEF FISHES.
- 14:20 Hans-Harald Hinrichsen
(Page 45) SPATIAL AND TEMPORAL VARIABILITY OF
BALTIC LARVAL SPRAT OTOLITH GROWTH: A
MODELING STUDY COMBINING ABIOTIC AND
BIOTIC ENVIRONMENTAL VARIABLES
- 14:40 Cynthia Jones
(Page 49) MEASURING CONNECTIVITY AND SURVIVAL
IN ESTUARINE-DEPENDENT FISH
- 15:00 **BREAK**
- 15:30 Ofer Ben-Tzvi
(Page 52) 'HARD' EVIDENCES FOR LARVAL
AGGREGATION DURING THE PELAGIC STAGE:
THE CASE OF THE CORAL-REEF FISH
NEOPOMACENTRUS MIRYAE
(POMACENTRIDAE)
- 15:50 Ryan Stanley
(Page 86) MORPHOMETRIC TOOLS AS PREDICTORS OF
KINEMATIC CAPABILITIES IN LARVAL FISH
- 16:10
16:30-19:00 Reception at Ocean Sciences Centre for the
Dedication of the Joe Brown Aquatic Research
Building

Tuesday, 10 July 2007

Connectivity and Dispersal – Continued (Chair – Joel Llopiz)

9:00 Jennifer Caselle (Plenary Speaker)
(Page 27) REVEALING PATTERNS OF LARVAL CONNECTIVITY: BRINGING MULTIPLE TOOLS TO THE TABLE

9:40 Scott Holt
(Page 47) THE UNUSUAL OCCURRENCE OF TARPON LEPTOCEPHALI IN SOUTH TEXAS ESTUARIES

Contributed Papers (Chair – Joel Llopiz)

10:00 Roland Olbrich
(Page 72) DOES FRONTAL RESIDENCE HELP LARVAL FISH? GROWTH AND ABUNDANCE OF LARVAL DAB, *LIMANDA LIMANDA*, WITHIN A DEVELOPING FRONTAL SYSTEM IN THE NORTH SEA.

10:20 Jason Shaffler
(Page 82) PATTERNS OF LARVAL ATLANTIC CROAKER INGRESS INTO CHESAPEAKE BAY

10:40 **BREAK**

11:00 Megan Fencil
(Page 36) AGE CLASS INTERACTIONS AMONG YOUNG RED DRUM IN SEAGRASS BEDS OF VARYING DENSITIES

11:20 Tony Miskiewicz
(Page 69) LARVAL FISH COMMUNITIES ASSOCIATED WITH THE EAST AUSTRALIAN CURRENT SEPARATION FROM THE SOUTH EAST COAST OF AUSTRALIA

11:40 Glenn Zapfe
(Page 92) EXPLORING THE ASSOCIATION OF GRAY TRIGGERFISH (*BALISTES CAPRISCUS*) WITH SARGASSUM IN THE GULF OF MEXICO

12:00 Katrin Marancik
(Page 61) EARLY PROGRESS IN THE IDENTIFICATION OF SERRANIDAE LARVAE FROM SEAMAP GULF OF MEXICO SURVEYS WITH AN EMPHASIS ON GROUPER (*EPINEPHELINAE*)

12:20 **LUNCH**

Contributed Papers continued (Chair – Kes Morton)

- 13:20 Paulette Penton
(Page 75) EMERGENCE PATTERNS OF CAPELIN
(MALLOTUS VILLOSUS) AT BEACH AND
DEMERSAL SPAWNING SITES ON THE
NORTHEAST COAST OF NEWFOUNDLAND
- 13:40 Hannes Baumann
(Page 17) SURVIVAL WINDOWS AND GROWTH
PATTERNS OF WESTERN AND CENTRAL
BALTIC YOUNG-OF-THE-YEAR SPRAT
SPRATTUS SPRATTUS IN RELATION TO
TEMPERATURE AND FEEDING CONDITIONS
- 14:00 B. Thrope Halloran
(Page 42) IS FLOODING A GOOD THING ON TEMPERATE
FLOODPLAINS?: THE GROWING LACK OF
CONCORDANCE BETWEEN THE SPRING
FLOOD PULSE AND STRONG RECRUITMENT
- 14:20 Thomas Hurst
(Page 48) GROWTH RATE VARIATION IN A MARINE
FLATFISH: INFLUENCES OF TEMPERATURE,
COMPETITION, AND PREDATORS
- 14:40 Debra Ballagh
(Page 16) DEVELOPMENT OF WEANING TECHNIQUES
FOR THE CULTURE OF MULLOWAY
(ARGYRO SOMUS JAPONICUS)
- 15:00 **BREAK**
- 15:30 Eric Bjorkstedt
(Page 21) MATCH-MISMATCH BETWEEN PARTURITION
AND WINTER UPWELLING: IDENTIFYING
OCEANOGRAPHIC CONDITIONS THAT FAVOR
LARVAL SURVIVAL OF WINTER-
PARTURITION ROCKFISHES
- 15:50 Adrian Jordaan
(Page 51) TRENDS IN THE COMMUNITY STRUCTURE OF
YOUNG-OF-YEAR FISHES DETERMINED FROM
A LONG-TERM SURVEY IN THE HUDSON
RIVER
- 16:10 Myron Peck
(Page 70) THERMAL PHYSIOLOGY OF BALTIC HERRING
EMBRYONIC DEVELOPMENT, LARVAL
CONDITION, FORAGING AND GROWTH
- 16:30-18:00 POSTER SESSION – INCO Centre

- Ian Bradbury
(Page 23) *Connectivity and Dispersal*
DRIFTING INTO THE LIGHT: ILLUMINATING
GLOBAL TRENDS IN MARINE LARVAL
DISPERSAL
- Mary Carla Curran
(Page 34) THE USE OF A SMALL TIDAL CREEK IN
GEORGIA, USA AS A SETTLEMENT OR
NURSERY AREA FOR FLATFISHES
- Ana Faria
(Page 22) LARVAL FISHES OCCURRING AT NIGHT IN A
TEMPERATE ROCKY SHORE: A COMPARISON
BETWEEN TOWED NETS AND LIGHT TRAPS
- M. Pillar Olivar
(Page 62) SPATIAL STRUCTURE OF THE EARLY
DEVELOPMENTAL STAGES OF CLUPEIFORMS
IN THE NORTHWESTERN MEDITERRANEAN
SEA
- Patrick Ouellet
(Page 73) VARIATIONS IN GREENLAND HALIBUT EGGS
BOUYANCY DURING DEVELOPMENT AT
THREE TEMPERATURES
- Myron Peck
(Page 71) THE EFFECTS OF SALINITY AND DAY LENGTH
ON THE GROWTH AND SURVIVAL OF BALTIC
COD LARVAE IN THE LABORATORY
- Keith Bayha
(Page 18) *Contributed Papers*
DEVELOPMENT OF A MULTIPLEX TAQMAN[®]
PCR ASSAY FOR THE IDENTIFICATION OF
FISH EGGS IN THE NORTHERN GULF OF
MEXICO
- Grace Klein-Macphee
(Page 54) CYCLES OF ABUNDANCE OF SELECTED
SPECIES OF EGGS AND LARVAE IN
NARRAGANSETT BAY, RHODE ISLAND
- Tae Won Lee
(Page 58) POPULATION SIZE, RECRUITMENT AND
UPSTREAM MIGRATION RATES OF GLASS
EELS (*ANGUILLA JAPONICA*) ESTIMATED BY
A MARKING EXPERIMENT USING VITAL DYES
IN AN ESTUARY, JEJU, KOREA
- Laura Ribeiro
(Page 80) GREEN WATER EFFECT: DOES DIFERENT
MICROALGAE SPECIES AFECT METABOLIC
PATHWAY OF MARINE FISH LARVAE?

- Laura Ribeiro
(Page 81) THE IMPORTANCE OF CHEMICAL AND PHYSICAL STIMULI ON *Solea senegalensis* LARVAE DIGESTIVE ACTIVITY – PRELIMINARY RESULTS
- Darrel Snyder
(Page 85) A FAMILY-LEVEL COMPUTER-INTERACTIVE KEY TO THE LARVAE OF FRESHWATER FISHES IN THE UNITED STATES AND CANADA
- Per Solemdal
(Page 74) *Parental Effects*
RECENT CHANGES IN SPAWNING BEHAVIOUR OF ARCTO-NORWEGIAN COD AT THE SPAWNING SITES
- Maria Chicharo
(Page 29) *Physiological Ecology*
NUTRITIONAL CONDITION OF EARLY LIFE STAGES OF SMALL PELAGIC FISHES IN A COASTAL-OCEAN ECOTONE
- Joan G. Holt
(Page 14) DEVELOPMENTAL EXPRESSION OF CORTICOSTEROIDOGENIC ENZYMES AND GLUCOCORTICOID RECEPTOR GENES AND ONTOGENY OF THE CORTISOL STRESS RESPONSE IN *SCIANEOPS OCELLATUS*
- Marta Moyano
(Page 19) MESOSCALE DISTRIBUTION OF CLUPEIFORM LARVAE IN AN UPWELLING FILAMENT TRAPPED BY A QUASI-PERMANENT CYCLONIC EDDY OFF NORTHWEST AFRICA.

Wednesday, 11 July 2007

- 9:00 Ian Fleming (Plenary Speaker)
(Page 37) *Parental Effects (Chair – Monica Gagliano)*
PARENTAL EFFECTS ON OFFSPRING PERFORMANCE AND THE SHAPING OF POPULATIONS TO COME
- 9:40 Michelle Bachan
(Page 15) MATERNAL EFFECTS OF EGG QUALITY ON PROGENY MORPHOLOGY, SURVIVAL AND GROWTH IN LARVAL ATLANTIC COD (GADUS MORHUA)
- 10:00 Michelle Simms
(Page 83) MATERNAL EFFECTS ON EARLY LIFE PERFORMANCE AND INTERACTIONS BETWEEN OFFSPRING OF ANADROMOUS AND OUANANICHE ATLANTIC SALMON (SALMO SALAR) MOTHERS
- 10:20 **BREAK**
- 10:40 Chris Chambers
(Page 28) PARENTAL AND ENVIRONMENTAL INFLUENCES ON VARIATION IN WINTER FLOUNDER EARLY LIFE-STAGES
- 11:00 Tara Duffy
(Page 35) *Physiological Ecology(Chair – Monica Gagliano)*
RESPONSE TO ENVIRONMENTAL ESTROGENS IN MENIDIA MENIDIA; POPULATION-LEVEL SUSCEPTIBILITY IS INFLUENCED BY MECHANISM OF SEX DETERMINATION
- 11:20 Dawn Davis
(Page 32) POPULATION DIFFERENCES IN EARLY LIFE-STAGE TOXICITY IN ATLANTIC TOMCOD, MICROGADUS TOMCOD, TO PCB CONGENERS
- 11:40 Kathryn Morton
(Page 67) MULTI-SPECIES DEVELOPMENTAL MORPHOMETRICS: WHICH HAS THE BEST PREDICTIVE POWER?
- 12:00 Christoph Petereit
(Page 76) TEMPERATURE EXPERIMENTS WITH EARLY LIFE STAGES OF SPRAT (SPRATTUS SPRATTUS) FROM THE BALTIC SEA, NORTH SEA AND THE ADRIATIC SEA
- 12:20 **LUNCH**

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| 13:20 | Benjamin Laurel (Page 56) | <i>Physiological Ecology (Chair – Shaun Killen)</i> TEMPERATURE-MEDIATED DEVELOPMENT, SURVIVAL AND LIPID CATABOLISM OF PACIFIC COD EGGS AND LARVAE |
| 13:40 | Adrian Jordaan (Page 50) | THE INFLUENCE OF TEMPERATURE ON THE GROWTH OF COD LARVAE: DEFINING THE OPTIMUM |
| 14:00 | Kate Lankin (Page 55) | EFFECTS OF TEMPERATURE AND GROWTH RATE ON METABOLISM OF LARVAL AND JUVENILE HADDOCK (MELANOGRAMMUS AEGLEFINUS) |
| 14:20 | Ruediger Voss (Page 89) | ENVIRONMENTAL FACTORS INFLUENCING LARVAL SPRAT FEEDING IN THE BALTIC SEA |
| 14:40 | Kelly Young (Page 91) | QUANTIFYING THE DIFFERENCES IN THE WAY THAT FISHERIES OCEANOGRAPHERS AND LARVAL FISH PERCEIVE VARIATIONS IN PREY AVAILABILITY |
| 15:00 | BREAK | |
| 15:30 | M. Pillar Olivar (Page 65) | FOOD HABITS, ONTOGENETIC DIET SHIFT AND SELECTIVITY BY BULLET TUNA LARVAE (AUXIS ROCHEI) IN THE NORTHWESTERN MEDITERRANEAN |
| 15:50 | Joel Llopiz (Page 59) | LARVAL FISH FEEDING IN THE LOW- LATITUDE OPEN OCEAN: CHARACTERIZING THE FEEDING ENVIRONMENT AND QUESTIONING THE PRESUMED CONSTRAINTS |
| 16:10 | Jens Rasmussen (Page 79) | DIET COMPOSITION AND PREY SIZE SPECTRUM IN SEVEN CO-OCCURRING SPECIES OF FISH LARVAE |
| 16:30-17:30 | | Business Meeting – INCO Centre |
| 18:30 | | Symposium Reception – Johnson Geo Centre (Signal Hill) |

Thursday, 12 July 2007

From Academia to Application (Chair – Hannes Baumann)

- 9:00 Ed Trippel (Plenary Speaker) (Page 88) ACADEMIA TO APPLICATION IN THE STUDY OF FISH EARLY LIFE HISTORY
- 9:40 Micheal Cooperman (Page 30) A SUCKER'S BORN EVERY MINUTE. THEN WHAT? A PRODUCTION ESTIMATE APPROACH TO ASSESS THE AFFECT OF THE CONTROVERSIAL KLAMATH BASIN WATER DECISION ON RECRUITMENT OF TWO ENDANGERED SUCKERS
- 10:00 Vel Puvanendran (Page 78) FINFISH LARVAL BEHAVIOURAL ECOLOGY: A BETTER TOOL FOR AQUACULTURE RESEARCH?
- 10:20 **BREAK**
- 10:40 Dan Hasselman (Page 43) ONTOGENETIC DEVELOPMENT OF THE ENDANGERED ATLANTIC WHITEFISH (COREGONUS HUNSTMANNI SCOTT, 1987) EGGS, LARVAE, AND JUVENILES
- 11:00 Véronique Leclerc (Page 57) SELECTION FOR FAST GROWTH DURING EARLY LIFE OF YELLOW PERCH IN SMALL OLIGOTROPHIC LAKES SUBJECTED TO FOREST HARVESTING IN DRAINAGE BASIN
- Physiological Ecology – Continued (Chair – Hannes Baumann)***
- 11:20 Lee Fuiman (Page 38) SEASONAL VARIABILITY IN ESCAPE RESPONSES OF RED DRUM LARVAE: PHYSIOLOGY OR SELECTIVE MORTALITY?
- 11:40 Monica Gagliano (Page 39) SURVIVAL AGAINST THE ODDS: ONTOGENETIC CHANGES IN SELECTIVE PRESSURE MEDIATE GROWTH-MORTALITY TRADE-OFFS IN A MARINE FISH
- 12:00 Mark McCormick (Page 63) SOCIAL CONTROL OF SELECTIVE MORTALITY
- 12:20 **LUNCH**

Physiological Ecology – Continued (Chair – Ben Laurel)

- 13:20 Catriona Clemmesen
(Page 26) A MULTI-SPECIES GROWTH MODEL BASED ON FLUOROMETRICALLY DERIVED RNA/DNA RATIOS AND TEMPERATURE: RESULTS FROM A META-ANALYSIS
- 13:40 Joan Holt
(Page 46) EFFECTS OF NUTRITION AND TEMPERATURE ON GROWTH AND RNA/DNA IN RED DRUM (SCIENOPS OCELLATUS) LARVAE
- 14:00 Mark Wuenschel
(Page 90) ENERGETICS OF JUVENILE GRAY SNAPPER: EVALUATION OF ABIOTIC AND BIOTIC PROPERTIES OF NURSERY AREAS ACROSS A LATITUDINAL GRADIENT
- 14:20 Damian Brady
(Page 25) LABORATORY AND FIELD EVALUATION OF JUVENILE WEAKFISH (CYNOSCION REGALIS) BEHAVIORAL RESPONSES TO DIEL-CYCLING HYPOXIA IN ESTUARINE TRIBUTARIES
- 14:40 Shaun Killen
(Page 53) THE INFLUENCE OF REDUCED AEROBIC SCOPE ON FORAGING MODE SELECTION IN YOUNG LUMPFISH.
- 15:00 **BREAK**
- 15:20 Dariusz Fey
(Page 31) MATCH-MISMATCH AND BIGGER-IS-BETTER HYPOTHESIS EVALUATION FOR LARVAL AND JUVENILE SMELT (OSMERUS EPERLANUS L.): AS ACQUIRED FROM OTOLITH MICROSTRUCTURE
- 15:40 John Govoni
(Page 41) THE FOOD OF LARVAL FISHES: ZOOPLANKTON DYNAMICS IN A CYCLONIC EDDY OF THE CHARLESTON GYRE REGION
- 16:00 Howard Browman
(Page 84) THE ESCAPE RESPONSE OF FOOD-DEPRIVED COD LARVAE (GADUS MORHUA L.)
- 16:20 Pierre Pepin
(Page 77) IDENTIFYING THE IMPACTS OF CLIMATE CHANGE AND ECOSYSTEM STRUCTURE ON THE EARLY LIFE STAGES OF FISH: THE DEVELOPMENT OF PREDICTIVE CAPACITY
- 16:40 Chris Chambers
Grace Klein-Macphee
Paul Snelgrove ***Closing Session***