ORAL SESSIONS

WEDNESDAY, AUGUST 22

S01 Asian Freshwater Biomonitoring and Bioassessment: Methods, Perspectives and Challenges
Session chair: Beixin Wang
Room: Conference room 6th floor
THE APPLICABILITY ASSESSMENT OF CANDIDATE AQUATIC SPECIES USED TO ONLINE BEHAVIOURAL MONITORING BASED ON QUANTITATIVE ION CHARACTER-ACTIVITY RELATIONSHIPS (QICARS) AND EXPERIMENTAL EXPOSURES TO HEAVY METALS

11:00 Wu J. Y., Peng Z. H., Wang H. Z., Cui Y. D.
THE ASSESSMENT OF LARGE RIVER HEALTH USING BENTHIC-INDEX OF BIOTIC INTEGRITY — A CASE STUDY IN DONGJIANG RIVER OF THE PEARL BASIN

DEVELOPMENT AND APPLICATION OF A MACROINVERTEBRATE-BASED INDEX OF BIOTIC INTEGRITY IN NORTHERN RIVER OF CHINA: A CASE STUDY OF SONGHUA RIVER

11:40 Chen K., Hughes R. M., Olson J. R., Wang B. X.
INCORPORATING TRAIT AND FUNCTIONAL DIVERSITY TO ENHANCE MULTIMETRIC INDEX PERFORMANCE AND ASSESS LAND USE GRADIENTS

S02 Benthos Biodiversity Conservation and Rehabilitation
Session chairs: Eren Turak, Changfa Zhou
Room: Conference room 6th floor
STUDY ON CONVERSATION OF FRESHWATER MOLLUSCA DIVERSITY IN THE YANGTZE RIVER BASIN ON MAXENT MODEL

14:20 Yao K. S., Cui Y. D.
MACROZOOBENTHOS COMMUNITY STRUCTURE AND ENVIRONMENTAL DETERMINANTS OF LIUXI RIVER IN GUANGZHOU

14:40 Jaitrong B., Phosanga K., Jitmanee C.
BIODIVERSITY OF AQUATIC INSECTS IN KWAN PHAYAO, PHAYAO PROVINCE, NORTHERN THAILAND

15:00 Sareein N., Kang J. H., Yoon T. J., Phalaraksh C., Bae Y. J.
GENETIC CHARACTERISTICS OF THE ASIAN GIANT WATER BUGS, LETHOCERUS DEYROLLEI AND L. INDICUS (HEMIPTERA: BELOSTOMATIDAE) IN ASSOCIATION WITH ARTIFICIAL LIGHT

INITIAL ESTABLISHMENT OF ROUTING MONITORING AND ASSESSMENT METHODS FOR ECOLOGICAL DREDGING EFFECTS ON MACROINVERTEBRATE COMMUNITY IN TAIHU LAKE

S04 Taxonomy, Evolution, and Systematics
Session chair: Yongde Cui
Room: Conference room 6th floor
15:50 Tong X. L., Shi W. F.
TAXONOMY OF THE FAMILY BAEIDIDAE (INSECTA: EPHEMEROPTERA) IN CHINA

16:10 Zhang W., Ma Z. X., Han N., Zhou C. F.
A REVISED REVIEW ON CINYGMINA OF CHINA (EPHEMEROPTERA: HEPTAGENIIDAE: ECYDONURINAE)

16:30 Takenaka M., Tojo K.
EXTREMELY LARGE GENETIC DIFFERENTIATION IN THE MAYFLY DIPTEROMIMUS TIPULIFORMIS: AN IDEAL CASE IN ELUCIDATION OF THE MECHANISMS OF SPECIATION (EPHEMEROPTERA; DIPTEROMIMIDAE)

16:50 Ma Z. X., Zhang W., Han N., Zhou C. F.
The Larvae of Epeorus Dayongensis and E. Herklotsi from China (Ephemeroptera: Heptageniidae)
THURSDAY, AUGUST 23

S05 Population, Assemblage, and Community Ecology
Session chair: Tae-Soo Chon
Room: Conference room 6th floor

09:10 He S. W., Chen K., Rajper R., Ding N., Wang B. X.
METACOMMUNITY STRUCTURE AND ASSEMBLY MECHANISM OF MACROINVERTEBRATE AND DIATOM WITHIN THREE INTERMEDIATE STREAM NETWORKS LOCATED AT DIFFERENT GEOGRAPHIES

09:30 Du Y., Zhang Y. H., Zhu X., Zhang M., Yang G. F., Qu X. D.
STUDY ON THE DAILY DRIFT BEHAVIOR OF MACROINVERTEBRATE IN THE XIANGXI RIVER

09:50 Duong V. C., Kim W. G., Sareein N., Kim J. S., Nguyen V. V., Bae Y. J.
A HISTORICAL REVIEW ON MOSQUITO CONTROL RESEARCH IN VIETNAM

MULTIPLE FACETS OF STREAM MACROINVERTEBRATE ALPHA DIVERSITY ARE DRIVEN BY DIFFERENT ECOLOGICAL FACTORS ACROSS AN EXTENSIVE ALTITUDINAL GRADIENT

S03 Impacts on Community Structure and Function
Session chair: Zhicai Xie
Room: Conference room 6th floor

11:10 Xiang H. Y., Zhang Y. X., Atkinson D., Raju S.
EFFECTS OF ANTHROPOGENIC SUBSIDY AND GLYPHOSATE ON MACROINVERTEBRATE ASSEMBLAGES IN STREAMS

11:30 Rajper A. R., He S. W., Chen K., Mbao E., Zhang J. W., Wang B. X.
EFFECT OF WATERSHED URBANIZATION ON EPT (EPHEMEROPTERA, PLECOPTERA AND TRICHOPTERA) COMMUNITY IN THE MIDDLE QIANGTANG RIVER BASIN ZHEJIANG PROVINCE CHINA

11:50 Park S. H., Seok S. W., Bae Y. J.
SECONDARY SUCCESSION OF BENTHIC MACROINVERTEBRATE COMMUNITIES IN THE HAN RIVER IN SEOUL, KOREA

FRIDAY, AUGUST 24

S03 Impacts on Community Structure and Function
Session chair: Yixin Zhang
Room: Conference room 6th floor

NUTRIENT ENRICHMENT HOMOGENIZES TAXONOMIC AND FUNCTIONAL DIVERSITY OF BENTHIC MACROINVERTEBRATE ASSEMBLAGES IN SHALLOW LAKES

09:30 Gao J., Wang B. X., Chen K., Rajper R.
SENSITIVE TRAITS AND TRAITS COMBINATIONS REVEALS THE FUNCTIONAL DIVERSITY DECLINE OF STREAM MACROINVERTEBRATE ASSEMBLAGES IN RESPONSE TO URBANIZATION

09:50 Wang L., Yang H. J., Gao Y. Z.
SEASONAL VARIATIONAL OF THE IMPACTS OF AGRICULTURE ON MACROINVERTEBRATE FUNCTIONAL TRAITS AND FUNCTIONAL DIVERSITY IN HIGH LATITUDE STREAMS

TRAITS UNDERDISPERSION AND OVERDISPERSION OF BENTHIC MACROINVERTEBRATE IN THREE CHINESE WATERSHEDS ACROSS TROPICAL TO SUB-TROPICAL REGIONS AND THE EFFECT OF ENVIRONMENTAL CONSTRAINTS
BSA2018 PROGRAM BOOK

**S01 Asian Freshwater Biomonitoring and Bioassessment: Methods, Perspectives and Challenges**
Session chair: Yuedan Liu
Room: Conference room 6th floor

11:10 **Techakijvej C., Phalaraksh C.**
THE USE OF BENTHIC MACROINVERTEBRATES AS BIOINDICATORS FOR EVALUATING OF WATER QUALITY OF RIVERS IN RAINY SEASON, THAILAND

11:30 **Li B., S J., S T., T Y., W K.**
METABARCODING BASED MACROINVERTEBRATE COMMUNITY ASSESSMENT UNDER THE INFLUENCE OF ARTIFICIAL GRAVEL BARS IN THE DOWNSTREAM OF DAM IN TRINITY RIVER

11:50 **Suhaila A. H., Mohd Fakhrullah Salafusalam M. A.**
FLUCTUATING ASYMMETRY IN POLLUTION-TOLERANT CADDISFLY HYDROPSYCHE DOCTERSI AS AN INDICATOR OF RIVER CONDITION

12:10 **Phosanga K., Jaitrong B., Jitmanee C.**
USE OF AQUATIC INSECTS AS BIOINDICATORS OF WATER QUALITY IN KWAN PHAYAO, PHAYAO PROVINCE, NORTHERN THAILAND

**S04 Taxonomy, Evolution, and Systematics**
Session chair: Koji Tojo
Room: Conference room 6th floor

14:10 **Kong Q. Q., Li Y. L., Lin X. L., Wang X. H., Qi X.**
STUDY ON TAXONOMY OF CHIRONOMINAE IN ZHEJIANG PROVINCE (DIPTERA, CHIRONOMIDAE)

14:30 **Sayenko E. M., Soroka M.**
ANALYSIS OF TAXONOMY OF FAR EASTERN UNIONINAE AND ANODONTINAE (UNIONIDAE, BIVALVIA)

14:50 **Peng Y., Cui Y. D.**
TAXONOMY AND DISTRIBUTION OF AQUATIC OLIGOCHAETES (ANNELEIDA: OLIGOCHAETA) IN TIBET, CHINA

15:10 **Zhou T. T., Peng Y., Cui Y. D.**
MOLECULAR IDENTIFICATION OF THE INTERMEDIATE OF TWO PROXIMAL SPECIES OF LIMNODERILLUS (OLIGOCHAETA, NAIIDIDAE) BASED ON 16S rDNA AND COI SEQUENCES

15:30 **Uy Christine J. C., Kang J. H., Bae Y. J.**
PHYLOGENY OF THE SUBFAMILY MACRONEMATINAE (TRICHOPTERA: HYDROPSYCHIDAE) BASED ON MOLECULAR AND MORPHOLOGICAL ANALYSES

**S05 Population, Assemblage, and Community Ecology**
Session chair: Van Vinh Nguyen, Dayong Wu
Room: Conference room 11th floor

14:10 **Chon T. S., Kwak G., Jang Y. H., Jung N., Leem J. B.**
COMMUNITY AND POPULATION DYNAMICS OF BENTHIC MACROINVERTEBRATES IN RESPONDING TO DISTURBANCES IN STREAMS

14:30 **Xing Y., Xie Z. C.**
DIVERSITY OF BENTHOS IN GANJIANG RIVER AND ITS CORRELATION WITH ENVIRONMENTAL FACTORS

14:50 **Meng X. L., Jiang X. M., Li Z. F., Wang J., Keith M. C., Xie Z. C.**
RESPONSES OF MACROINVERTEBRATES AND LOCAL ENVIRONMENT TO SHORT-TERM COMMERCIAL SAND DREDGING PRACTICES IN A FLOOD-PLAIN LAKE

15:10 **Nikulina T. V.**
PHYTOPLANKTON OF THE MIDDLE PART OF THE AMUR RIVER: SPECIES DIVERSITY, DOMINANT’S CHANGE AND QUANTITATIVE CHARACTERISTICS IN THE SUMMER PERIOD

15:30 **Seok S. W., Baek M. J., Hwang J. M., Park S. H., Bae Y. J.**
EFFECTS OF FLOOD DISTURBANCE ON COHORT STRUCTURE OF RIVERINE MAYFLY EPHEMERA ORIENTALIS (EPHEMEROPTERA: EPHEMERIDAE) IN THE HAN RIVER IN SEOUL, KOREA
**S04 Taxonomy, Evolution, and Systematics**
Session chair: Xiaolong Lin
Room: Conference room 6th floor

16:00  **Suzuki T., Tojo K.**
AN EVOLUTIONARY ECOLOGICAL STUDY OF THE GIANT WATER BUG *APPASUS JAPONICUS*: DETECTION OF THEM EXHIBITING ASYMMETRIC REPRODUCTIVE ISOLATION

16:20  **Yano K., Tojo K.**
GENETIC DIVERSITY OF *CLOEON* SPECIES IN EAST ASIA: WITH SPECIFICAL REFERENCE TO THE SPECIFIC LINEAGE OF *CLOEON DIPTERUM*

16:40  **Pelingen A. L., Freitag H.**
OVERVIEW OF PHILIPPINE STONEFLIES (INSECTA: PLECOPTERA) WITH NEW RECORDS OF *NEOPERLA NEEDHAM*, 1905 FROM MINDORO ISLAND

17:00  **Lin X. L., Wang X. H.**
ASSEMBLING A COMPREHENSIVE DNA BARCODE REFERENCE LIBRARY FOR CHINESE NON-BITING MIDGES (DIPTERA: CHIRONOMIDAE)

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**S05 Population, Assemblage, and Community Ecology**
Session chair: Xiaoli Tong
Room: Conference room 11th floor

16:00  **Yu Y., Qu X. D., Zhang M., Zhang H. P.**
RELATIONSHIP BETWEEN MACROPHYTE COMMUNITIES AND MACROINVERTEBRATE COMMUNITIES IN AN URBAN STREAM

16:20  **Liu Z. Y.**
COMMUNITY STRUCTURE OF MOLLUSCS AND THEIR RELATIONSHIP WITH ENVIRONMENTAL FACTORS IN SOUTH DONGTING LAKE

16:40  **Tan C. Z., Wu C., Gao J., Fu R., Wang B. X.**
METACOMMUNITY STRUCTURE OF BENTHIC MACROINVERTEBRATES VARIES BETWEEN AUTUMN AND WINTER IN POYANG LAKE CATCHMENT

17:00  **Mbao E., Chen K., Gao J., Wang Y., Wu C., Hu Y.L., Sitoki L., Omondi S., Wang B. X.**
THE IMPACT OF URBANIZATION ON DIATOM COMMUNITY STRUCTURE IN QIANTANG RIVER WATERSHED, CHINA

17:20  **Cheng X., Sun R. H., Wu D. Y.**
LAND USE CHANGES AND SOCIO-ECONOMIC DEVELOPMENT DETERIORATING RIVER ECOSYSTEM HEALTH IN HAIHE RIVER BASINS, CHINA

17:40  **Rahong P., Techakijvej C., Sarein N., Bae Y. J., Phalaraksh C.**
WEATHER, LAND COVER AND ANTHROPOGENIC IMPACT ON MOSQUITO POPULATION DYNAMICS IN CHIANG MAI CITY, THAILAND
POSTER SESSIONS
FRIDAY, AUGUST 24
Room: Conference room 11th floor

S01 Asian Freshwater Biomonitoring and Bioassessment: Methods, Perspectives and Challenges
MACROINVERTEBRATE BIODIVERSITY IN RELATION TO ENVIRONMENTAL VARIABLES OF LITTORAL ZONE IN THE LOWER YANGTZE RIVER FROM THE NANJING TO ESTUARY

PT-02 Zhang J. W., Chen K., He S. W., Wang B. X.
IMPROVING THE MACROINVERTEBRATE-BASED BI CLASSIFICATION CRITERIA FOR WATER QUALITY ASSESSMENT IN YANGTZE RIVER DELTA

METACOMMUNITY ECOLOGY MEETS BIOASSESSMENT: ASSESSING SPATIO-TEMPORAL VARIATION IN MULTIPLE FACETS OF MACROINVERTEBRATE DIVERSITY IN HUMAN-INFLUENCED LARGE LAKES

PT-04 Wang Y., Wang B. X., Gao J.
SPECIES DETECTION PERFORMANCE OF MACROINVERTEBRATES USING ENVIRONMENTAL DNA METABARCODING BETWEEN WATER SAMPLES AND ETHANOL SAMPLES

S02 Benthos Biodiversity Conservation and Rehabilitation
PT-05 Wang L., Yang H. J., Lin C. L., Chen G., Liu Y. W., Gong Y. W., Tan Y.
SEASONAL DYNAMICS OF MACROINVERTEBRATE COMMUNITY STRUCTURE IN A HEADWATER STREAM IN THE CHANGBAI MOUNTAINS

PT-06 Nikulina T. V.
SPECIES DIVERSITY OF PERYPHYTON ALGAE FROM THE GASSI LAKE (THE LOW AMUR RIVER, RUSSIA)

PT-07 Bazhina L. V., Semenchenco K. A., Kleush V. O.
SOME DATA ABOUT MACROZOOBENTHOS IN LITTORAL ZONE OF ARCTIC LAKES OF THE PUTORANA PLATEAU, KRASNOYARSK REGION, RUSSIA

PT-08 Ngo X. N., Nguyen N. H., Nguyen V. V.
DISTRIBUTION OF DECAPOD CRUSTACEANS IN THE TRUONG GIANG RIVER, QUANG NAM PROVINCE, VIETNAM

S03 Impacts on Community Structure and Function
PT-09 Han X. M., Yang X. M., Guo S. J., Li Y. Y.
EFFECTS OF HUMAN ACTIVITIES ON MACROZOOBENTHOS IN GUAN RIVER BASIN OF DANJIANGKOU RESERVOIR AREA

BENTHIC MACROINVERTEBRATE COMMUNITY DISTRIBUTION IN RESERVOIR AND UNDER DAM OF YULIANG SHIPPING HUB IN YOU RIVER GUANGXI PROVINCE

S04 Taxonomy, Evolution, and Systematics
PT-11 Ito T., Shimura N.
NOTES ON FIVE MICROCADDISFLIES (TRICHOPTERA: HYDROPTILIDAE) RECORDED FOR JAPAN, ONE A NEW DESCRIBED SPECIES

PT-12 Nozaki T.
DESCRIPTIONS OF FIVE NEW SPECIES OF THE GENUS HOMOPLECTRA (TRICHOPTERA, HYDROPSYCHIDAE) FROM JAPAN WITH REASSIGNMENT OF HOMOPLECTRA TOHOKUENSIS (KOYAYASHI, 1973)

PT-13 Sayenko E. M.
GLOCHIDIA MORPHOLOGY OF SOME ASIAN MOLLUSCS (BIVALVIA, UNIONIDAE)
PT-14  Fu R., Wang B. X., Chen K.  
CONSTRUCTION OF REGIONAL DNA BARCODE LIBRARY OF MOLLUSCA IN YANGTZE RIVER DELTA

DESCRIPTIONS OF LARVAE OF FIVE PHILOPOTAMIDAE SPECIES FROM CHINA (INSECTS, TRICHOPTERA)

PT-16  Inaba S., Nozaki T.  
THE GENUS PSEUDONEURECLIPSIS ULMER (PSEUDONEURECLIPSIDAE, TRICHOPTERA) IN JAPAN

PT-17  Park S. J., Kong D. S.  
HISTORICAL REVIEW AND AN AMENDED CHECKLIST OF TRICHOPTERA (INSECTA) OF THE KOREAN PENINSULA

PT-18  Suksaï B., Sangpradub N.  
PRELIMINARY STUDY ON DIVERSITY OF WHIRLIGIG BEETLES (COLEOPTERA: GYRINIDAE) IN NORTHERN THAILAND

PT-19  Kogawara H., Takenaka M., Tojo K.  
THE GENETIC STRUCTURE AND THE MOLECULAR PHYLOGEOGRAPHY OF EPHEMERA MAYFLIES

PT-20  Jiang X. K., Xie Z. C.  
A MYSTERIOUS REALM OF ANIMALS HIDDEN IN CAVE: AN INTRODUCTION TO THE TROGLOFAUNA

PT-21  Hwang J. M., Muranyi D., Kang J. H., Seok S. W., Park S.W.  
TWO NEW RECORDS OF LEUCTRIDAE (PLECOPTERA) FROM SOUTH KOREA

PT-22  Uy Christine C. J., Sareein N., Duong V. C., Bae Y. J.  
AN UPDATE TO THE TRICHOPTERA FAUNA OF SOUTH KOREA WITH A REPORT OF TWO NEW RECORDS

PT-23  Li Y. L., Kong Q. Q., Zhang R. L., Qi X.  
STRUCTURAL CHARACTERISTICS OF CHIRONOMID COMMUNITY AND THEIR INDICATIVE SIGNIFICANCE IN BIOASSESSMENT OF WATER QUALITY IN YONGAN RIVER OF XIANJUN, ZHEJIANG

PT-24  Zhang R. L., Zhou D., Chen S.  
A REDESCRIPTION OF CHIRONOMUS (CHIRONOMUS) FLAVIPLUMUS TOKUNAGA (DIPTERA: CHIRONOMIDAE) FROM CHINA

PT-25  Suh K. I., Hwang J. M., Bae Y. J., Kang J. H.  
COMPREHENSIVE DNA BARCODES FOR SPECIES IDENTIFICATION AND DISCOVERY OF CRYPTIC DIVERSITY IN MAYFLY LARVAE FROM SOUTH KOREA

S05 Population, Assemblage, and Community Ecology

PT-26  Isaeva O. M., Kasumyan A. O.  
DIVERSITY OF TASTE PREFERENCES IN BENTHIVOROUS CARP FISHES

PT-27  Wei H. Y., Chen K., Wang B. X., Ding N., Chen Q.W.  
SCALE EFFECTS ON ELEVATIONAL PATTERNS OF TAXONOMIC RICHNESS AND FUNCTIONAL DIVERSITY OF AQUATIC INSECTS IN THE UPPER LANCANG-MEKONG BASIN

PT-28  Duong V. C., Ngo X. N., Nguyen V. V., Bae Y. J.  
BIODIVERSITY AND DISTRIBUTION OF EPHEMEROPTERA, PLECOPTERA AND TRICHOPTERA ALONG LONGITUDINAL ZONES OF KHE THE STREAM, QUANG NAM PROVINCE, VIETNAM

PT-29  Qiu S., Yan Y. J.  
TRICHOPTERA TAXONOMY AND FAUNA OF DABIE MOUNTAINS