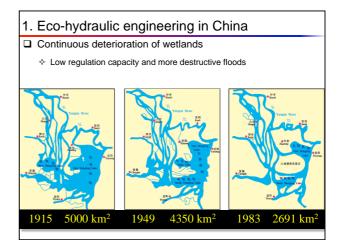
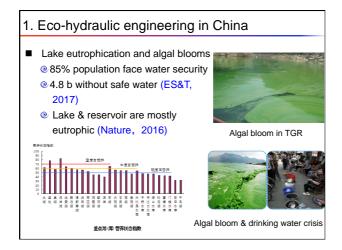


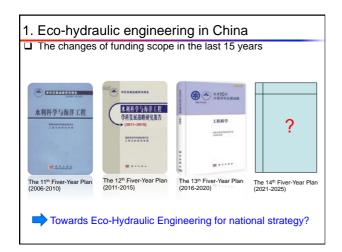
Outlines

- (1) Eco-hydraulic engineering in China
- (2) Major research interests and the advances
- (3) Future interests for mutual collaborations

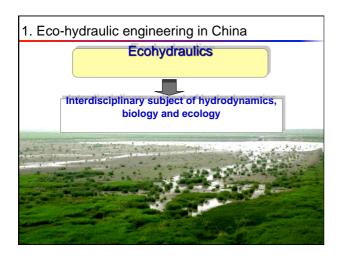


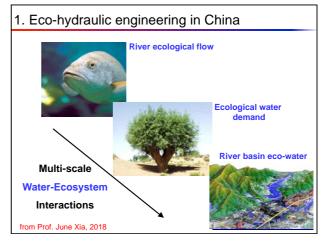


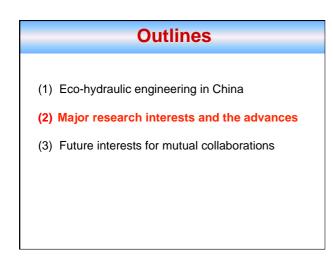


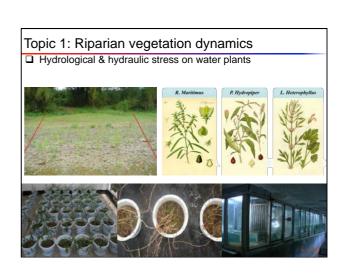


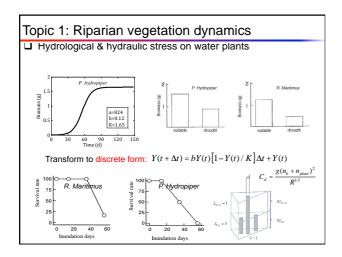


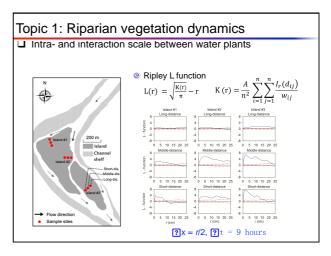


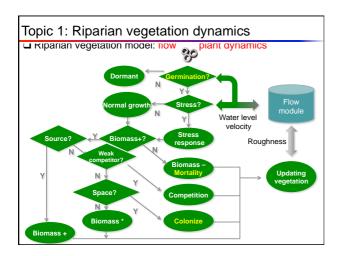


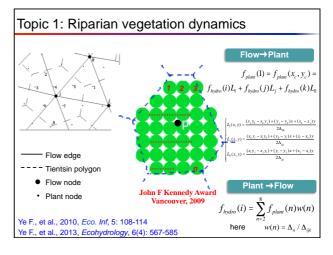


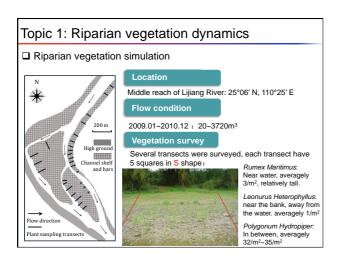


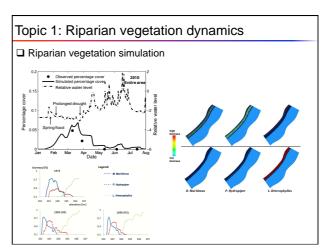


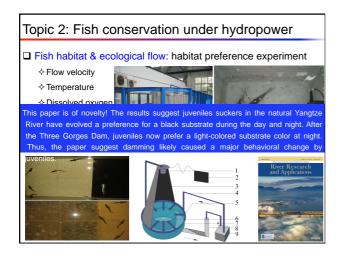


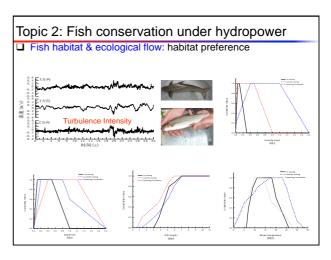


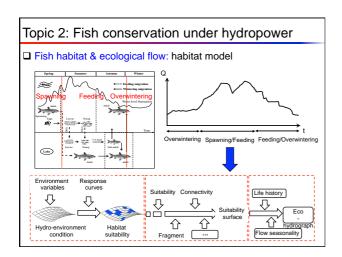


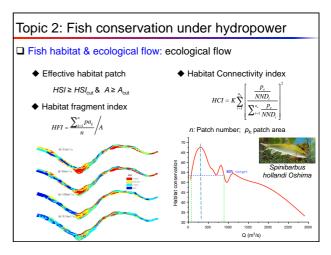


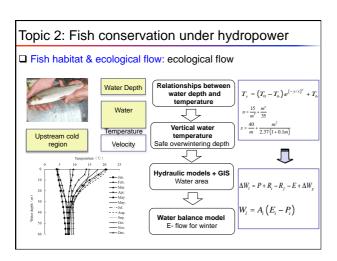


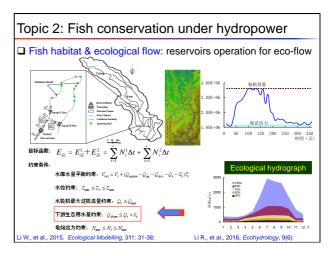


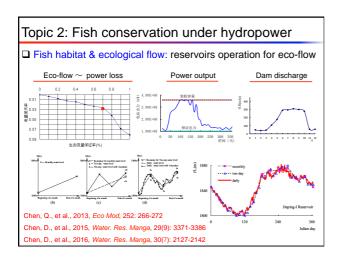


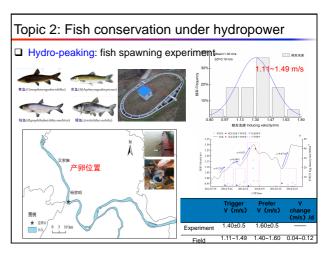


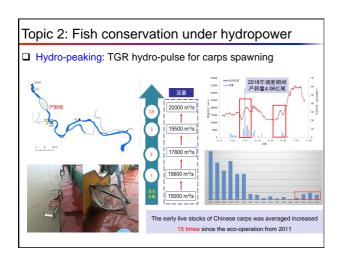


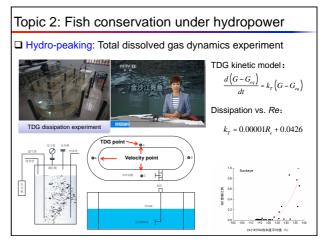


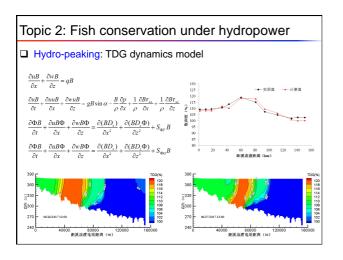


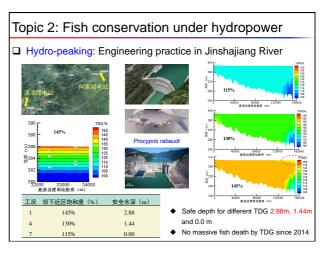




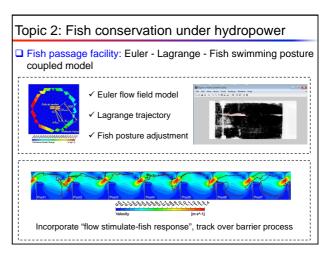


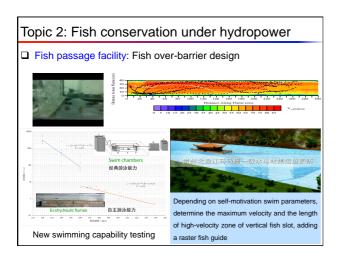


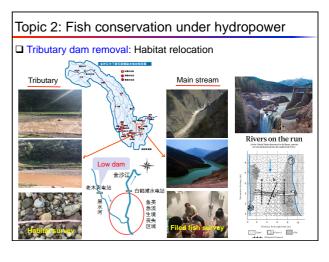


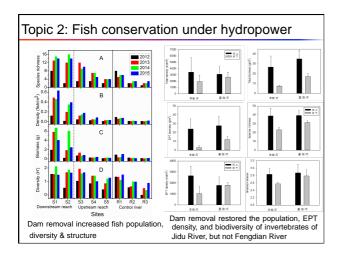


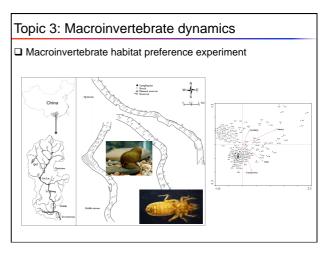


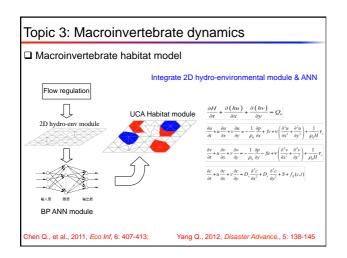


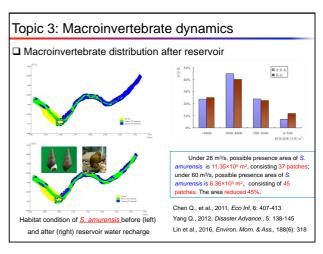


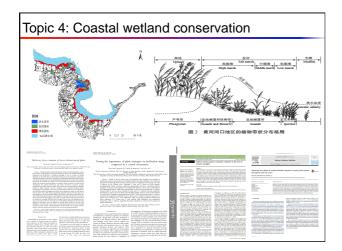


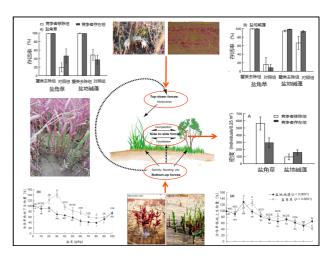


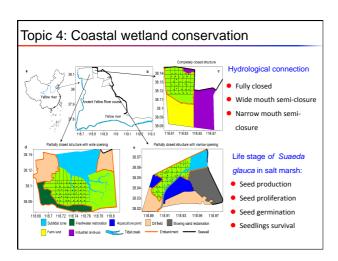


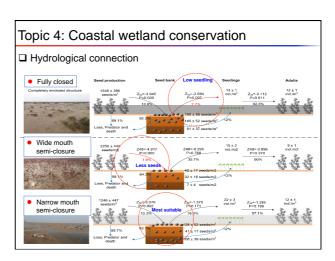




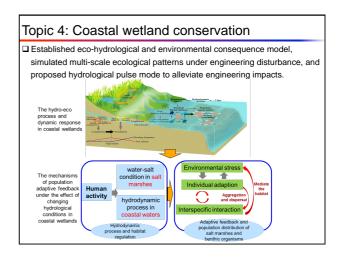


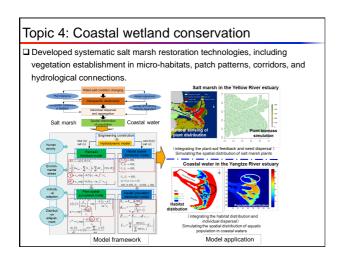


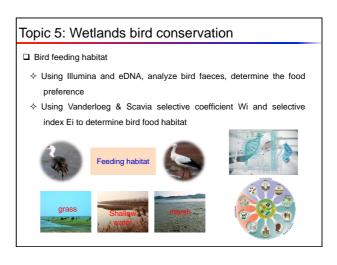


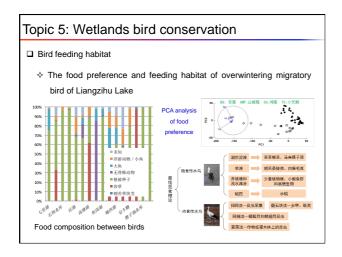


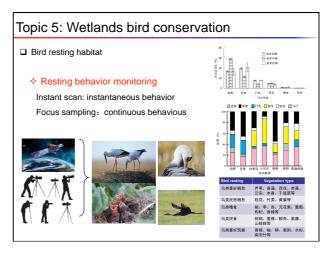
Topic 4: Coastal wetland conservation Evolution of salt marsh vegetation spatial patterns due to water content and salinity gradient changes. High salinity zone is essential to prevent invasive species and sustain salt marsh vegetation pattern. Atmosphere CO2 CH, N, O Plant Plant Plant Flooding NO, N-I, PD-CC-0, availability Soil and Sedments Soil and Sedments Soil and Sedments Soil and Sedments NO, N-I, Prandormation.



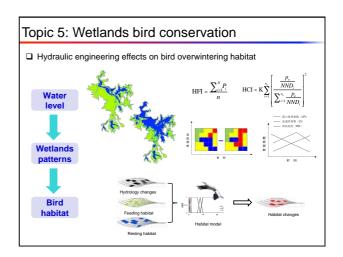








Topic 5: Wetlands bird conservation Hydraulic engineering effects on bird overwintering habitat $\frac{\partial H}{\partial t} + \frac{\partial (hu)}{\partial x} + \frac{\partial (hv)}{\partial y} = Q_{x}$ $\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} = -\frac{1}{\rho_{0}} \frac{\partial p}{\partial x} + fv + v \left(\frac{\partial^{2} u}{\partial x^{2}} + \frac{\partial^{2} u}{\partial y^{2}} \right) + \frac{1}{\rho_{0}H} \tau_{x}$ $\frac{\partial v}{\partial t} + u \frac{\partial v}{\partial x} + v \frac{\partial v}{\partial y} = -\frac{1}{\rho_{0}} \frac{\partial p}{\partial y} - fu + v \left(\frac{\partial^{2} v}{\partial x^{2}} + \frac{\partial^{2} v}{\partial y^{2}} \right) + \frac{1}{\rho_{0}H} \tau_{y}$ Water level – shallow marsh area



Outlines

- (1) Eco-hydraulic engineering in China
- (2) Major research interests and the advances
- (3) Future interests for mutual collaborations

3. Future interests for potential collaborations

- (1) Coupling surface, groundwater, nutrient cycling and vegetation dynamics at multi scales
- (2) Efficient fish conservations in rivers with high dams
- (3) Quantification of ecological values for balancing the social-economic benefits and ecosystem
- (4) Coastal development and salt marsh conservations
- (5) Tributary small dam removal and habitat restoration for main stream habitat loss

