

# Oceanography Department Seminar

**SUNG YOON KIM**

PROFESSOR

DEPARTMENT OF MECHANICAL ENGINEERING  
KAIST, DAEJEON, REPUBLIC OF KOREA

## Elliptical near-inertial surface currents and modification of their temporal decays

We interpret seasonal and cross-shore variability of near-inertial variances in the coastal radar-derived surface currents off Oregon with a fully extended slab layer model, allowing all non-linear terms of horizontal shear and strain components and anisotropic frictional terms, by investigating the roles of vorticity and divergence on the coastal near-inertial currents. Dominant clockwise variance and non-