26 | 23 de Setiembre 19:30 - 20:30 UPTAKE AND ELIMINATION OF ENDOSULTAN BY ZERRA FISH, Toledo, M.C.F., Jonsson, C.M. University of Campinas, Campinas, SF, Brazii Endosulfan has been used as an insecticide for the protection of various crops and the control of mesquite larva in many countries Although regarded as non persistent in the environment, endosulfan has demonstrated higi acute toxicity to several fish specie. This experiment was conducted to investigate, in a semi-static bioassay, the bioaccumulation and elimination of endosylfan in zebra fist (Brachydanio rerio). The resticide mean concentration in water was 0.3 ug/l and the level of endosulfan residues (a+ + 6-isomers + endosulian sulfate) in the exposed fish at day 21st was 0 808 ± 0 116 ug/g b w . . . as Jetermined by GLC using EC detector. The estimated value of bioconcentration factor was 2.650 ± '441, the total endosulian residues being eliminated with biological half-life of 4 days. Histopathological studies, showed predominant lipid accumulation in the liver and necrotic focus in the gills of exposed fish.