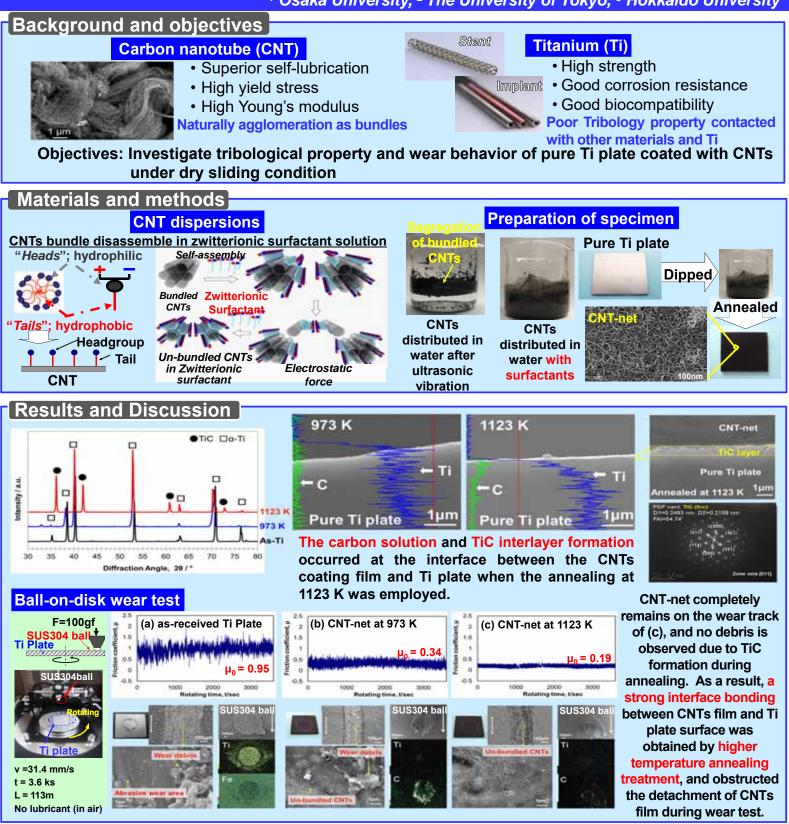
Tribological Properties of Carbon Nanotubes Coated onto Pure Titanium Plate J. Umeda¹, B. Fugetsu², H. Miyaji³, E. Nishida³, K. Kondoh¹ ¹ Osaka University, ² The University of Tokyo, ³ Hokkaido University



Conclusion

The annealing treatment at higher temperature was more effective to reduce the friction coefficient than that at lower temperature. This is due to the acceleration of solid-state diffusion of carbon atoms originated from CNT into Ti became more active, and resulted in the formation of TiC interfacial layer having an important role to strongly bond the CNTs to the Ti plate.