

# **Séminaire ICI : Leszek Szczecinski**

08 Juillet 2015, 14:00 – 15:30

## **Titre du séminaire et orateur**

HARQ and AMC: Friends or Foes.

Leszek Szczecinski, INRS, Canada.

## **Date et lieu**

Mercredi 8 juillet 2015, 14h00.

ENSEA, salle 384.

## **Abstract**

In this talk we will discuss the relationship between two fundamental mechanisms of the physical layer (PHY): adaptive modulation and coding (AMC) and hybrid automatic repeat request (HARQ) when operating over fixed slot-duration channel. HARQ and AMC are considered as complementary elements of PHY and we want to elucidate their role and interaction when operating over the fading channels. The comparison will assume the transfer of delay-resistant, loss-sensitive information and we compare and conclude on the throughput attainable using both mechanisms. We will also propose and evaluate various strategies targeting the improvement of the throughput when HARQ is deployed.