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TCET 2220

Plasmonics in optical communications Seminar

On November 21st, 2013, IEEE organized a seminar at New York City college of Technology about

optical communications. This seminar was presented by Professor Djarfar Mynbaer.

From the seminar, we’ve learned that 95% of today’s communications use optical communication.

Professor Mynbaer mentioned the fact that fiber optic has a high speed transmission, and the

attenuation is minimized. He said that fiber optic runs communications over 100 km without the need

of amplifier. He talked about the conversion of electrical signal to optical signal and vice versa, using

optical and electronics components. He talked about Laser Diode that generates light which is the

carrier signal in optical communications. He also went over WDM: Wavelength division multiplexing.

Based on all the information we received at the seminar, optical communications are wonderful

technology revolution. They are fast and more efficient.