## [T-03] 초청강연

## LEDs as the New Lighting Applications

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High brightness LEDs were first applied to construct large display panel of side glowing optical fibers for back light of large LCD devices including a LCD TV. Typical panel display unit exhibited uniform high brightness of 3000cd/m². The LED technology for new light sources since the discovery of very bright blue LEDs due to Tanaka has been developed rapidly and widely. LED meets the requirements of solid state lighting for display, namely, high brightness, low operation power(voltage, current), extremely long life and low cost (pending). The back light for TFT LCD, cellular phones, color image scanners, traffic signals, display signs, indoor and architectural illumination, automotive, flash lamps and diagnosis will be the full potential application subjects. Growth of large singe crystals of GaN at Comtecs will also be briefly presented.