

NTT Press Releases

NIPPON TELEGRAPH AND TELEPHONE CORPORATION
NTT DOCOMO, INC.

Former NTT Laboratory Leader Wins U.S. National Academy of Engineering Award

- Dr. Yoshihisa Okumura Becomes First Japanese Scholar to Receive Charles Stark Draper Prize -

TOKYO, JAPAN, February 20, 2013 --- Nippon Telegraph and Telephone Corporation (NTT) and NTT DOCOMO, INC. announced today that Dr. Yoshihisa Okumura, a former leader of the mobile radio laboratory at then Nippon Telegraph and Telephone Public Corporation (NTT Public Corporation) and currently professor emeritus at Kanazawa Institute of Technology, became the first Japanese individual to win the 2013 Charles Stark Draper Prize for pioneering contributions to the world's first cellular telephone networks, systems and standards.

The Charles Stark Draper Prize, often referred to as the Nobel Prize of engineering, has been awarded for outstanding achievements in engineering since 1989. Along with Dr. Okumura, four others were awarded for contributions to the development of cellular telephony this year. They received their awards in a ceremony at Union Station in Washington, D.C. on February 19, 2013 (U.S time).

Among Dr. Okumura's significant contributions during his tenure at the Electrical Communications Laboratory of NTT Public Corporation, he helped elucidate radio propagation characteristics in mobile communications and formulate the basic cellular telephone network and system concept leading to a high-capacity automobile communication system on the 800 MHz frequency band.

In work concerning radio propagation characteristics, he experimented extensively with the transmission and reception of radio signals in various field environments using different frequencies on a broad range of VHF and UHF bands. Based on data he obtained in these field experiments, he established methods to estimate curves of the received field strength and service areas with respect to distances in the range of 1-100 kilometers in 1968.

His highly acclaimed field strength curves were adopted as a Comité Consultatif Internationale des Radiocommunications (CCIR) recommendation by the International Telecommunication Union (ITU). The "Okumura Curves" have been used for the practical design and establishment of various mobile radio systems the world over. Propagation prediction formulae based on the Okumura Curves are used in the radio link design for current mobile phone systems. Also, his methods for analyzing data from field experiments are widely used for area-quality assessment and optimization.

NTT and NTT DOCOMO laud Dr. Okumura for helping to pave the way for the world's first fully integrated commercial cellular telephone network and system. In the spirit of Dr. Okumura's pioneering work, the two companies continue to devise innovative telecommunication services through their research and development activities and pursuit of international standardization.

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About NTT

NTT Group is the largest provider of wireline and wireless voice, data, leased circuit, telecommunications equipment, and system integration services in Japan, and operates one of the largest telephone networks in the world. Its predominant business is to provide nation-wide telecommunications services. NTT Group's business domain consists of five primary lines of business: regional communications business, long distance and international communications business, mobile communications business, data communications business, and other business. NTT Group reported consolidated revenues of 10.5 trillion yen (US\$130billion) for the fiscal year ended March 31, 2012. Over 220,000 NTT Group people support customers in more than 100 countries. For more information, please see www.ntt.co.jp/index_e.html

About NTT DOCOMO

NTT DOCOMO is a world-leading mobile operator and growing provider of comprehensive services centered on mobility. The company serves over 60 million customers in Japan via advanced wireless networks, including a nationwide 3G network and one of the world's first commercial LTE networks. Leveraging its unique capabilities as a mobile operator, DOCOMO is a leading developer of cutting-edge technologies for NFC mobile payments, mobile GPS, mobile TV, intuitive mobile assistance, environmental monitoring, smart grids and much more. Overseas, the company provides technical and operational expertise to eight mobile operators and other partner companies. NTT DOCOMO is listed on the Tokyo (9437), London (NDCM) and New York (DCM) stock exchanges. Please visit www.nttdocomo.com for more information.

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