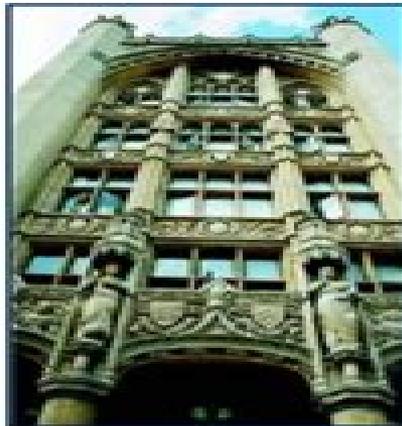


# RF IV Waveform Measurement and Engineering

## - CW Measurement System Realization -



### Centre for High Frequency Engineering

School of Engineering  
Cardiff University

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IEEE MIT-3 Distinguished  
Microwave Lecturer  
2008-2010

## History of RF I-V Measurements

### - Development of the Non-Linear Network Analyzer

- Historically has had many names:
  - NLVNA: Non-Linear Vector Network Analyser
  - LSNA: Large Signal Network Analyser
  - ANA: Absolute Network Analyser
  - Vector(al) Component Analyser



#### Era of the MTA (Microwave Transition Analyser)

- Kompa et al (1990)
- Tasker et al (1994)
- Verspecht et al

1990



#### Return of the DSO

- Takemoto CSA
- Williams et al

2010

#### Waveform Measurement

1980

#### First realization of calibrated waveform measurement solutions

- Time Domain: Sipka et al (1988)
- Frequency Domain: Lott U (1989)

2000

#### First wave of Commercialization (LNSA)

- Agilent & Maury Microwave Corporation



# Rf I V Waveform Measurement And Engineering Systems

**Peipei Pang**



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