

cne

CNE
TECHNOLOGY CENTER

info@cnetechology.com

www.cnetechology.com

[! Watch CNE's Video Profile !](#)



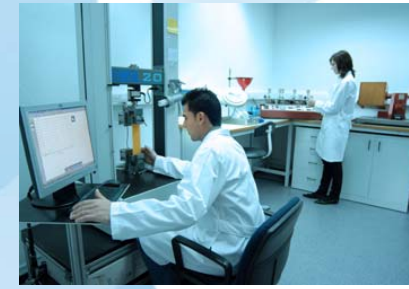
CNE - Overview

- Established in 1997
- National Center of Excellence in the fields:
 - **Laboratory Services** (ISO 17025 Accreditation)
 - Materials Testing & Product Certification
 - Calibration & Industrial Measurements
 - **Applied Research**
 - **Supply of Test & Measurement Equipment**
 - **Technical Services & Training**
- Serving the needs of an expanding customer portfolio in Cyprus and overseas
- Currently 21 Employees
(5 PhD, 3 MSc, 10 Engineers & Technicians)



Materials Testing & Product Certification

- Wide range of state-of-the-art equipment
- **Accredited by SINAL (Italy)**
- Variety of tests in accordance with European, National and International Standards on:
 - Metallic materials and products
 - Composites, plastics, rubber materials and products
 - Construction materials and products
 - Machinery and equipment
 - Electrical and electronic products
 - Fabrics and textile products
 - Leather products and footwear



Calibration & Industrial Measurements

- Leading calibration service provider in Cyprus
- Cover all standards and some specialized metrological parameters found in Industry
- **Accredited by SIT (Italy)** – traceable calibrations on:
 - Mass & Density • Temperature & Humidity
 - Pressure • Flow
 - Force & Torque • Volume
 - Dimension • Electrical & Electronics
- Comprehensive Calibration Asset Management Service
- On-site calibration service
- Specialised industrial measurements for complex tests and systems



Technical Services & Training

- Technical consulting, training courses and workshops in various fields of engineering, like:
 - Laboratory Quality Management Systems ISO/IEC17025, ISO9001
 - Industrial Process Automation System Design
 - Data Acquisition Development and System Integration
 - CE marking
 - Training on QMS, ISO/IEC 17025, Uncertainty Analysis
 - Development of Test and Experimental Methods
- Equipment & expertise for specialized technical services like:
 - Thermography Services
 - 3D Rapid Prototyping Services
 - 3D Color Scanning Services



Test & Measurement Equipment

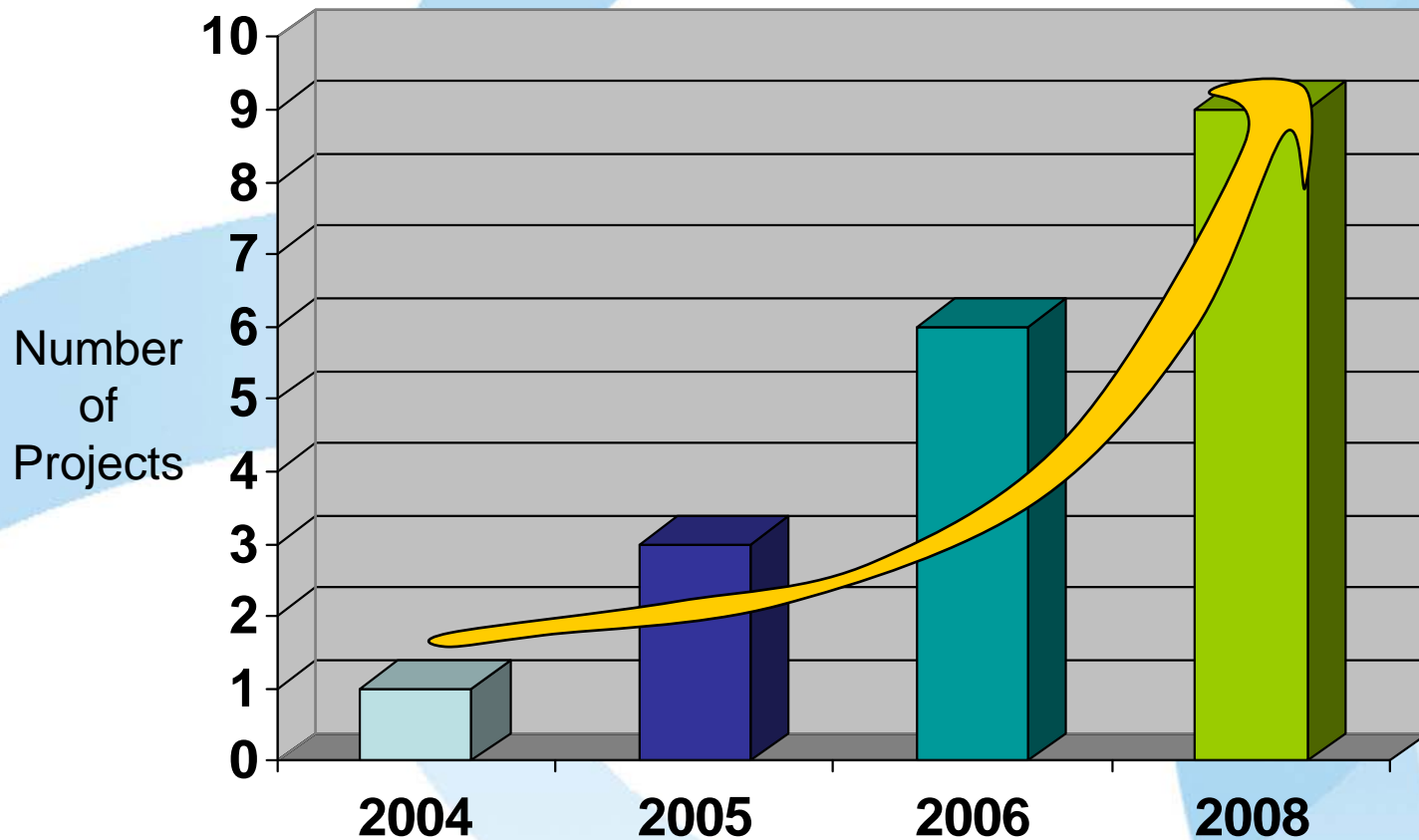
- CNE supplies a wide range of quality test and measurement instruments & equipment from leading manufacturers worldwide:
 - Materials Testing Machines
 - Weighing Instruments
 - Industrial and Process Instrumentation
 - Precision Measuring Equipment
 - Industrial and Metrology Calibrators
 - Data Acquisition Systems
 - Educational and Vocational Training Equipment
 - Agricultural and Environmental Monitoring Systems
 - Wireless Sensor Network Systems for a vast range of applications
 - Customized Test & Measurement Systems



Applied Research - Overview

- CNE Designs and Executes applied **research projects** to help its customers **improve their competitive position** in the market
 - Design, Prototyping and Development of innovative products and equipment
 - Industrial/production process design and optimization
 - Technological and material improvements of products
 - Research Project Management
- **Experience - Numerous independent projects for the industry!**
 - CE Products: Water heaters, Tile Adhesives, Cast Iron Manholes, etc.
- **Funding obtained from RPF:**
 - 3 projects with **CNE as HO (Host organization)**
 - 12 projects with **Industry as HO** and CNE as the lead RTD partner
 - 2 projects with **NPO as HO** and CNE as the lead RTD partner
 - * **most generated and written by CNE (14 out of the 17)****17 PROJECTS**
- **Funding obtained from FP7 calls:****1 PROJECT**
- **Funding obtained from EUREKA calls:****1 PROJECT**

Growth of Research Division



Applied R&D – Keys of Success

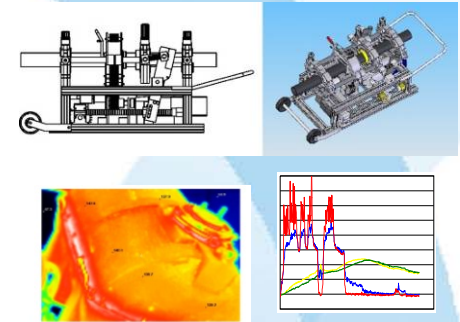
- **State of the art Infrastructure**
- **High level & spherical scientific knowhow**
 - 5 Phds, 3 MScs, 10 Engineers & Technicians
- **Proximity / Close Collaboration with Industry**
 - First hand exposure to problems/challenges
 - Trust Build up
- **Connection with many research organizations in Cyprus & abroad**
(complementing expertise)



Portfolio of Research Projects

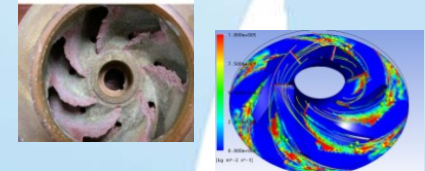
Plastics Industry

1. Design and Development of an innovative universal portable on-site friction welding machine for plastic pipes
2. Process Optimization and Development of a system for the production of rotational moulding products
- new** 3. Development of an Innovative Hot Water Storage Tank made of mild steel and coated internally with polymer using rotational moulding



Pumps Industry

1. Erosion analysis of pumps and the use of thick coatings for extending their lifetime
- new** 2. Study of Galvanic Corrosion in Pumps and the development of an Innovative protection method using Impressed Current



Wireless Sensor Networks - Field Measurements

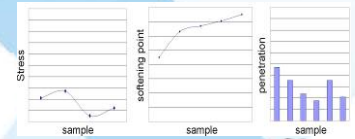
1. Development of an automated trap system using image analysis techniques and Wi-Fi technology for monitoring increase of "Lobesia Botrana" in relation to weather data collected
- new** 2. Development of a Method for Monitoring the population of the Mediterranean Fly using Wireless Technology
- new** 3. Development of an Experimental System for mapping of "Lobesia Botrana" population in Cyprus using automated traps and wireless communication and positioning systems



Portfolio of Research Projects

Waterproofing Membrane Industry

Development of an automated process for using recycled rubber powder from used tires in the production of modified asphalt waterproofing membrane



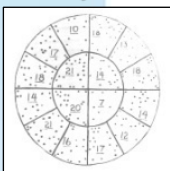
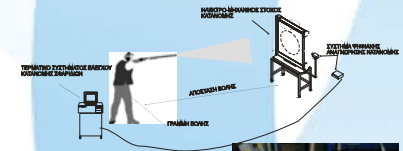
Food Industry

1. Design and Development of an innovative automated machine for the production of grape rolls, a traditional delight called "Soutzioukos"
2. Design and Development of an innovative extruder for production of traditional Cypriot natural gum "Pafitiki Pissa"
3. Development of a novel process and prototype machine for the automatic production of "Lahmajoun"



Shotgun Cartridge Industry

1. Design and Development of an innovative automated system for shot pellet image pattern recognition
2. Design and Construction of Automated Shooting Clay Systems and production machines for shot gun cartridge manufacturer



Waste Management



Complete Waste Management System Utilizing Autonomous & Experimental Waste Compactors & Relevant Data Transmission & Management Systems

Research Areas of Interest & Competence

- **Development of new Products and Prototypes** for Industry Applications, Consumer products and other end user applications
- **Testing, CE Certification and Patenting of new products developed**
- **Industrial Process Automation** using new and advanced technologies
- Use of **Wireless Technologies and Web-Based Monitoring Tools** for Industry, Agricultural, Environment, Civilian, Medical, Security & other sectors
- **Energy Saving** at Industry and Building Sector using also Alternative and/or Renewable Sources
- Use of **Coating with advanced properties** for industrial applications
- Use of advanced equipment, wireless warning systems and renewable sources of energy for **Recycling and Solid Waste Storage & Collection Systems**
- Design and development of **Customised Laboratory Devices**

!THANK YOU!

For More Information:

Alexis Onoufriou
Research Division Manager

CNE Technology Center

www.cnetechtechnology.com

[! Watch CNE's Video Profile !](#)



Email: a.onoufriou@cnetechtechnology.com

Tel.: 22624090

Fax: 22624092