

# 3R ENVIRONMENTAL TECHNOLOGIES LTD.

General Manager: Edward Someus

[www.3ragrocarbon.com](http://www.3ragrocarbon.com)



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## ***3R - Recycle - Reduce - Reuse***

*"Converting Trash Into Cash" by Prevention - Protection - Preservation*

The **3R ENVIRONMENTAL TECHNOLOGY group** is an Swedish origin innovative technology development and industrial engineering organization for management of products & services for Eco-industry & Agriculture on the rapidly developing and growing E.U. & U.S. Markets. Recognizing the demands for the global Eco-industrial technology change beyond year 2010 - *required to meet the new strict U.S. and E.U. Environmental & Industrial Standards & Norms, and advanced technical, market, cost & energy efficiency requirements* - the 3R has created an integrated Trans-Atlantic scientific, industrial and business group.

### **CORE COMPETENCES:**

- ✓ **COAL & CARBON = zero emission solutions:** advanced carbonization technology industrial engineering and design for industrial production of added value Clean Coal energy & agricultural carbons
- ✓ **AGRO SOIL SCIENCE & AGRO BIOTECHNOLOGY = carbon negative solutions:** advanced agro biotechnological solid state fermentation & formulation (SSFF) technology for agro industrial production of added value plant biological control, plant growth promotion and natural fertilizer substances for organic and low input food crop production.

The prime focuses on the 3R business are:

**COAL & CARBON:** technical development, engineering and manufacturing of the patented 3R **Thermal Desorption** (pyrolysis - thermolysis) waste management (soil treatment, hazardous waste management, Waste-to-Clean Energy) and **Low Temperature Carbonization** Technologies (special carbon manufacturing from renewable biomass, agro refuse and hard coal; regeneration of activated carbon, coal de-sulphurization for Clean Coal). OBJECTIVES: industrialized engineered technology and product design, licensing. The 3R Clean Coal technology is recently licensed and listed on the London Stock Exchange.

**AGROCARBON:** **development of innovative environmental and agricultural technologies** for (1) restoration of natural balance and functionality of degraded continental agro soils with controlled microbiological activity and (2) plant nutrient supply for sustainable, improved, economical and ecological food crop production.

The organization is the owner of the fully permitted industrial site in West Hungary **Biomass & Agricultural Biotechnological Innovative Technology Demonstration and Training "3R" Center** for innovative and advanced agricultural, environmental and industrial technology field demonstrations under different EU programmes, including - but not limited to - pyrolysis & carbonization technologies, biomass utilization and biological control of soil borne plant pathogen technologies as well. The U.S. 5,707,592 patented 3R product and service program are integrated and linked to the industry and agriculture.

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## **PRODUCTS & SERVICES for AGRICULTURE & INDUSTRY**

**3R carbonisation technology design and manufacturing:** for hard coal and agricultural organic by-product carbonization processing, incl. animal bone meals. **Industrial Equipment Design and Manufacturing:** design, manufacturing, turn key installation and maintenance service of industrial equipment, such as directly and indirectly heated rotary kilns, heat exchangers, off-gas treatment systems, post burners, air selectors, etc.

**CLEAN COAL ENERGY: 3R Clean Multi Fuels:** cost efficient preventive pre-treatment cleansing & homogenisation of high Sulphur, Mercury and Chlorine content coals, derived fuels and combined biomass for Clean Energy power-generation up to 300 MWe electric power capacities for improved environmental and economical clean energy performance as per Open Energy Market demands.

**AGRI CHAR: 3R for degraded soil natural balance restoration:** The 3R technology providing added value valorization of food industrial and agricultural organic waste and byproduct streams by integrated carbonization and biotechnological means. The input material is processed carboniferous agro materials and bone meal (having high Phosphorus and Calcium content), with origin of food industrial processing, and/or other biotechnological natural solid carriers. The feed material is carbonized in a specific indirectly heated rotary kiln and than adapted by soil microbiological substances by product specific fermentation process. The output end product provides combined effect, **3 in 1 triple effect, providing natural soil balance restoration for degraded agro soils** and used in the **low input and organic farming agriculture, with special aim to the vegetable and medicinal herb plant cultivations:**

- ✓ **Biological control** effect against soil borne plant pathogens, for substitution or significantly lower the input of agro chemicals
- ✓ **Plant growth promotion**, for natural substance support to get higher plant yields with better quality and safer food products
- ✓ **Natural fertilization**, for substitution of heavy metal contaminated rock phosphate fertilizers



# The 3R technology applications

<p style="text-align: center;"><u>Thermal Desorption*</u> Applications</p>	<p style="text-align: center;"><u>Low Temperature Carbonization*</u> Applications</p>
<p style="text-align: center;"><u>Soil Decontamination &amp; Recultivation</u> throughput capacities: from 3,000 m<sup>3</sup>/year</p>	<p style="text-align: center;"><u>ANIMAL BONE CHARCOAL</u> Soil mineral recycling (biocontrol, plant growth promotion, fertilization) Throughput: as per project specific need. 23k m<sup>3</sup>/year output is standard.</p>
	<p style="text-align: center;"><u>CHARCOAL</u> Agro and food industrial by product thermal &amp; biotech processing Throughput: as per project specific need.</p>
	<p style="text-align: center;"><u>Anthracite Clean Coal</u> <u>Clean Multi Fuel Energy</u> <u>Solid Fuel Desulfurization</u> <u>Carbon Capture and Storage</u> throughput capacities: 30k t/year to 560k t/year</p>

**NOTICE** \*: The terminology of *Low Temperature Carbonization* (UK), *Thermal Desorption* (USA), *Pyrolysis* (Germany) and *Thermolysis* (EU) are synonym terms for reductive thermal decomposition processes in absence of air, usually made under negative pressure.

## Operational areas:

### North America



### European Union



### Australia



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### **3R PROCESS CHARACTERISTICS:**

- ✓ Indirectly heated -patented- horizontally arranged rotary kiln,  
**ORIGINAL SOLUTION.**
- ✓ Reductive thermal treatment.
- ✓ Process under vacuum.
- ✓ Up to 850°C material core treatment temperature.
- ✓ Post combustor with 850°C or 1,150°C<sup>± 50°C</sup> 2 sec treatment temperature and minimum 2 sec. residence - real time.
- ✓ Closed and continuous input – output.
- ✓ Complete solution.
- ✓ It is a **SAFER, BETTER, FASTER, LESS COSTLY** process than any other known treatment solutions.

### **BASIC TECHNICAL AND ENGINEERING CONCEPTS OF THE 3R TECHNOLOGY DEVELOPMENT:**

- ✓ Use no exotic design, construction and materials: The “3R” technology does not containing exotic technical solution and/or materials.
- ✓ Provide high added value economy by 3R: from widely available low grade refuse/waste materials through added value processing produce high quality end products for wide and alternative applications.
- ✓ Integrate technological options to improve overall technical and economical efficiency.
- ✓ Prepare cost efficient serial manufacturing of 3R equipment components to offer Customers economically high competitive 3R equipments.
- ✓ Provide modular and alternative application design as per customers demand with no extra cost during 3R equipment manufacturing process.
- ✓ Provide continuous operational support and cost efficient maintenance.
- ✓ Training of plant operators is important element.

Curriculum Vitae

Name: SOMEUS, George Edward Date of birth: April 28, 1951  
Citizenship: Swedish Swedish Personal Id. No: 510428-2594  
Someus – combining high level of scientific knowledge with industrial engineering and field applications, specializing in the: research, technical development, engineering and industrial applications of the Thermal Desorption Technology for solid hazardous waste management, Low Temperature Carbonisation Technology for recycling of carboniferous materials and LLW radioactive sludge stabilization and volume reduction. Specializing in indirectly-directly heated rotary kiln technique and auxiliary installations, such as post combustion chamber constructions and off gas treatment scrubbers.

EDUCATION

Univ. of Lund in Sweden 1972 - 1979, graduated in 1978, M.Sc., Natural and Environmental Sciences.

EXPERIENCE

Geoteknik AB of Sweden (1979-1986): consulting and engineering for environmental protection and pollution control systems in South Sweden.

Product Control Ltd. of UK (1986-1997): technical manager of the Research, Technical Development and Engineering of innovative hazardous and nuclear waste treatment, pollution control technologies, manufacturing of Activated Carbon and Clean Coal.

1989-- Terra Humana Clean Technology Development, Engineering and Manufacturing Ltd. of Hungary: manufacturing of ceramic/activated carbon water treatment micro filtration equipment, EU RTD performer soil decontamination-recultivation, soil-ground water remediation project management, development of bio-impregnated activated carbon and surface modified zeolite for soil qty improvement. Coordinator and key technology designer for EU FP5 and FP6 application oriented RTD projects.

1999-- Thermal Desorption Technology Group LLC. of North America: executive manager of the company, a Swedish – North American holding company for innovative scientific developments and global marketing of the 3R technology for US and export markets, based on US made equipments and services. Project management for industrial applications of the "3R" technology.

Large projects (90's): Swedish Elektrolux Corp. chlorinated hazardous waste landfill design, construction and operation (project value USD 7,5 M). Hungarian Railway soil and ground water decontamination (project value USD 0,75 M). Ceramic-Activated Carbon filter manufacturing (USD 1,1 M). EU Clean Coal project NNE5/363/2001 (project value ECU 2,248,440). NATO soil remediation, ref no. 973720. Invention-Patent: Method and Apparatus for Treatment of Waste Materials, Including Nuclear Contaminated Materials (patented in the USA, 1998, No. 5,707,592). FP6 and FP6 RTD project coordinator and key technology designer. Contracted FP7 project partner, and large collaborative FP7 proposal coordinator and and key technology designer.

SKILLS

- ✓ Successful project management with result oriented leadership skills, team player with high work ethics and goals, strong analytical skill with problem solving ability.
- ✓ Efficient manager of general contracts, including administration - finance - legal issues, and technical specialist in recycling and pollution control. Knowledge in EU and US industrial and environmental laws, regulations and permitting procedures, ISO 14000 auditor, efficiency in computer analyses.
- ✓ High level skills in soil science, soil decontamination – recultivation – soil qty improvement.
- ✓ Thermal engineering of hazardous and LLW radioactive waste.
- ✓ High level of technical writing and interpersonal skills in English, Swedish and Hungarian.

REFERENCES

Prof. Dr. A.K. Gupta: University of Maryland, Mech. Engineering USA Tel.: (1-301) 405 5276  
Prof. Dr. L. Jakab: Budapest Technical University, Hungary, Tel.: (36-20) 943 9107

## **Major Reference List of Edward Someus**

University of Lund, Sweden (MSc), 1972-1979, Environmental and Natural Science, environmental assessment and geological survey works for Vattenfall AB electric power generation company.

Geoteknik AB, Sweden, 1979-1986, environmental assessment studies, waste treatment studies, construction works for Helsingborg coal fired electric power generation plant, MSW landfill constructions and RTD of Low Temperature Carbonisation – Clean Coal and Activated Carbon manufacturing - technology applications, design and operation of paper waste transportation system in South Sweden. Höganäs AB Sweden: 1982-1986, construction works for improvement of industrial environment in chemical industries. 1980 - 1986, design and operation of waste transportation system in South Sweden.

Product Control Ltd., U.K., 1987 - 1996, RTD and Engineering of Low Temperature Carbonisation and Thermal Desorption Technology applications.

Terra Humana Clean Technology Development, Engineering and Manufacturing Ltd., established in 1989 as a Swedish – Hungarian joint venture company with large equipment manufacturer for design, manufacturing and installation of waste treatment equipment.

Low Temperature Carbonization and Activated Carbon technology engineering, manufacturing and operation of Field Demonstration Plant in Hungary, (1989 – 1994)

Pacific Basin Consortium for Hazardous Waste Research and Management, USA, Hawaii, Honolulu, April 20 -24, 1998: Advanced Thermal Desorption of Solid Hazardous Waste.

U.S. Environmental Protection Agency, VISITT 5.0 1996, where 3R is highlighted under the (1)Thermal Desorption, (2)Pyrolysis and (3)Off-gas Treatment.

U.S. EPA's Fifth Forum on Innovative Hazardous Waste Treatment Technologies: Domestic and International, Chicago, Illinois, May 3-5, 1994.

ADPA, American Defence Preparedness Association, Environmental Restoration Opportunities Conference, Munich, Germany, October 25-27, 1994.

Comco Martech AG., Switzerland, 1996 - 1998: chief engineer for environmental works in Hungary, whereas executing general contract based remediation works, such as for Hungarian Railway, MOL Hungarian Oil Company, Lehel Elektrolux. General contracted works:

Hungarian Railway Wood Preservation Works East Hungary: writing a tender including technology specification and detailed cost calculations, upon tender award writing a detailed juridical contract for the work, organization and integration of the work, financial management and administration of the work: complex soil and Activated Carbon ground water remediation technology design, site assessment, construction and execution of works. Project value: USD 600,000.-.

Hungarian Railway Wood Preservation Works West Hungary: writing a tender including technology specification and detailed cost calculations, upon tender award writing a detailed juridical contract for the work, organization and integration of the work, financial management and administration of the work: complex Activated Carbon ground water remediation technology design, site assessment, construction and execution of works. Project value: USD 425,000.-.

LEHEL ELEKTROLUX: recovery of illegally dumped 80,000 m<sup>3</sup> hazardous waste, chlorinated hazardous waste landfill design, construction and management of landfills, technical supervision and start up the leach water treatment operational phase after finalization of the construction, financial and administrative supervision. Project value: USD 7,5 million.

Sensor - Batalas, UK-Hungary: ISO 14000 lead auditor workshop, no.: 97/11/916

ISO 14001 auditing the Hungarian Railway Real Estate Service

ISO 9001, NATO AQAP 110 auditing works and services

ZENON Systems Ltd. Canada, 1999: water treatment project management/marketing works.

Environment-orientated Sustainable Industrial Development in Central Europe During the European Union Integration Process: Expert Meeting and Workshop as a Preparatory Forum of Specific Project Development, Thursday 21<sup>st</sup> January 1999 Budapest, Hungary

Title: "Environment and Sustainable Development: Creation of New Industrial Employment by Global Market Distribution of Advanced Waste Recycling and Treatment Technologies"

Executive field manager of NATO project for soil remediation: NATO ref number 973720.

From 1997 - United European Environment Controls Ltd. UK, partner and consultant for company for waste management projects in the UK and India.

From 1999 - Manager and owner of the Thermal Desorption Technology Group LLC. of North America, a holding company for U.S. operations applying 3R technologies and services.

From 1989 - TERRA HUMANA Clean Technology Development, Engineering and Manufacturing Ltd. of Hungary, soil decontamination, ground water remediation, recycling of refuse agricultural materials and biomass utilization engineering company.

Exclusive Hungarian distribution partner for Fairey Industrial Ceramics of UK. manufacturing of ceramic/activated carbon drinking water treatment equipment for hospitals, military field application and house hold use. Producer of "Edward's Aqua Humana" ceramic/activated carbon micro filters.

**2002-2005 - EU FP5: Coordinator and technology designing engineer for the 3R Multi Fuel Clean Coal FP5 project**, with participation of Universities, research institutes and multinational companies from seven EU countries (NNE5/363/2001, project value €2,25M). The goal is to develop Clean Coal technology by preventive pretreatment of the coal, for clean energy production in solid fuel power generation <300 MWe capacity. DISSEMINATION: The project ended in 2005 and after engineered scale up design the innovative technology has been licensed and listed on the London Stock Exchange for world wide large scale investment and marketing.

**2005-2008 - EU FP6: Coordinator, key technology designing engineer and strategic dissemination manager for the PROTECTOR EU FP6 N°. 514082 project** for the European Union with 12 partners from eight countries (project value €2.7 M)

**2008-2012 - EU FP7: RTD partner in the collaborative project "EUPHOROS—EFFICIENT USE OF INPUT IN PROTECTED HORTICULTURE"**, project number 211457 (FP7-KBBE-2007-1), 2008-2012.

**2008-2012 - EU FP7: Coordinator and key technology designing engineer for the "Trans European programme for added value utilisation of economically important agricultural, food industrial and aquaculture waste streams for production of wide range of market driven bioproducts" „WASTE-TO-BIOPRODUCTS"** FP7 proposal for the European Union with 19 partners from thirteen countries (project value €8.5 M). (status: stage 1 passed by 2007, stage 2 under evaluation by spring 2008).

**2009 june- EU-CIP-ECOINNOVATION grant agreement for large scale industrial application and market replication of Agroc carbon technology and product.** (2009-2012). Coordinator and Key technology designing. Project number: ECO/08/238984/SI2.532247

# Biomass & Agricultural Biotechnological Innovative Technology Demonstration and Training “3R” Center

*“Science to Achieve Results”*

*“Converting Trash Into Cash”*

## **WE OFFER THE 3R CENTER FACILITY AND OUR SCIENTIFIC COOPERATION FOR DEMONSTRATION AND VALIDATION OF YOUR INNOVATIVE TECHNOLOGY**

The field demonstration of advanced design and innovative technologies is the key element to **bridge over science & application, development & commercialization**. The “3R” site is intend to be a Central European regional applied RTD and demo center for biomass utilization within 250 km radius range from us (covering Hungary, Austria, West Romania, Slovakia, South Poland, all former Yugoslavian countries and West Ukraine) and interlink to Western European RTD and industrial networks as well.

Polgardi is an industrial site which is situated 80 kilometers West of Budapest in Hungary at the cross road of M7 highway towards Trieste Italy. One of Central Europe’s main industrial center in the town of Szekesfehervar is located 15 km from Polgardi only, which is Hungary’s largest modern agricultural and industrial concentration, including several multinational industrial park areas. 20 km North West from us located one of Hungary’s largest chemical production plant (Nitrochemi) with extensive and diversified agro-chemical production, while heavy industries (aluminum producers, coal mining) are located 20 km North of the 3R site.

### COLLABORATION ADVANTAGES:

#### ***QUALITY - EFFICIENCY - RELIABILITY - LOW COST***

- ✓ **BIOMASS - AGRO-BIOTECH DEMO SERVICE:** Provides ready access to full service site for individual customer-driven applied scientific, technical and field support as per your requirements (incl. installation, operation, maintenance, monitoring) of your innovative biomass utilization and/or agro-biotechnology demo project.
- ✓ **VALIDATED REFERENCE SITE:** Regional Central European reference centre of S & T for international demonstration for your innovative technology set up.
- ✓ **ECONOMICAL – COST EFFICIENT OPERATION:** Your planned innovative biomass and/or agro-biotech technology demonstration project overall implementation will be less costly and less complicated to realize.
- ✓ **AUTHORITY PERMITS APPROVED:** Demo site installation and operational Authority permits ready managed for your innovative biomass projects.

## “ 3 R ” CENTER

Located in the center of Central Europe, close by industrial/agricultural areas

ISO 9001 – ISO 14001  
CERTIFIED

for  
-pyrolysis technology design-  
-fine carbon production-  
-carbon regeneration-



The Polgardi industrial site is located within industrial development area (former agricultural area) at the railway station which area has been entitled for INDUSTRIAL PARK for small and medium sized industrial production operations. Our industrial site is located in the core in this industrial park development area.

### AREA AND INFRASTRUCTURES OF THE POLGARDI TOWN INDUSTRIAL SITE

Total area:	8.000 m <sup>2</sup>
Built area (as of January, 2005):	500 m <sup>2</sup> Separated sections in the building: (1) machine and boiler room, (2) main hall, (3) assembling and storage rooms, (4) social rooms, (5) laboratory and administration rooms.
Add-on building under planning:	1.500 m <sup>2</sup>
Industrial classification of the area: <b>AUTHORITY PERMITS = FULLY PERMITTED</b>	Economical development, business, service and industrial production area <b>TECHNOLOGY DEMONSTRATION and INDUSTRIAL PRODUCTION PERMITTED SITE</b>

- **Direct road connection with M7 Highway** (2 kilometers from the site).
- The **traffic access** to the site is **directly** from outside road.
- **Industrial water supply** (municipal) as needed. Additionally, there is an **own water source well**, with approx. capacity 5 m<sup>3</sup>/h).
- **Sewage water:** modern and separated sewage water treatment facility of 20 m<sup>3</sup> has been built to meet the EU regulations, whereas only pretreated industrial sewage water should be discharged to municipal sewage system, so it does not disturbing the biological balance.
- **Industrial electric supply**, available as needed.
- **Natural gas:** the pipe line is connected to a medium pressure main gas pipe line; therefore the natural gas quantitative access is unlimited.
- **Fire protection water pipe line**, d= 110 mm. Additionally, we have built a 100m<sup>3</sup> fire protection water tank park as per EU regulations.
- Close by **connection to industrial railway** (railway station 1 is 400 meters from the site, trans-load railway station 2 is three kilometre from the site).

**Industrial and Scientific co-operations** (in alphabetic order, for the past 5 years major programmes)

<u>BELGIUM</u>	Chemviron Carbon GmbH (CALGON CARBON CORPORATION) <b>Nutrition Sciences</b> N.V., Belgium
<u>CYPRUS</u>	SEAWAVE Fisheries Ltd. , Cyprus
<u>FRANCE</u>	<b>INRA</b> -LBE - French National Institute for Agricultural Research, France Lab. de Biologie et Génétique Moléculaire (de l'Inst. de Génétique et Microbiologie de l'Université Paris XI)
<u>GERMANY</u>	<b>Fraunhofer Institute</b> for Environmental, Safety-Energy Technology University of Rostock (Institute of Energy and Environmental Technology) <b>University of Rostock (Institute of Soil Science and Plant Nutrition)</b> Centre for Environmental Research (UFZ Centre for Environmental Research, Department of Chemical Ecotoxicology, Leipzig, Member of Helmholtz Association of National Research Centres ) University of Hannover (Institute of Plant Diseases) Ruhr-Universität Bochum. Germany
<u>GREECE</u>	Aristotle University of Thessaloniki, (AUTH) Centre for Solid Fuels Technology and Applications (CSFTA)
<u>HUNGARY</u>	BUNGE Research & Development Centre for Vegetable Oils (BUNGE Corporation) University of Debrecen, Medical and Health Center, Faculty of Medicine, Dpt. of Human Genetics Biotechnological Research Center Szeged "Frédéric Joliot-Curie" National Research Institute for Radiobiology and Radiohygiene <b>AGRICULTURAL OFFICE of the County Fejér Plant Protection &amp; Soil Conservation Directorate, Hungary</b> Arpad Agricultural Production Cooperative Plc. Hortobagy Fish farm Ltd.
<u>ISRAEL</u>	<b>MIGAL Galilee Technologies Northern Agro Ltd.</b>
<u>ITALY</u>	<b>AGROINNOVA (Centre of Competence for the Innovation in the Agro-environmental Sector, Torino)</b> <b>University of Naples Federico II (Dipartimento di Scienze del Suolo, della Pianta, dell'Ambiente e delle Produzioni Animali)UNINA-DISSPAPA</b>
<u>LATVIA</u>	Latvian State Institute of Wood Chemistry, LSIWC University of Latvia, Research Institute of Microbiology and Biotechnology
<u>LUXEMBURG</u>	Landwirtschaft Energie Umwelt sarl, Luxemburg
<u>THE NETHERLANDS</u>	<b>Wageningen University and Research Centre. Plant Research International B.V. WUR-PR</b> <b>Wageningen University and Research Centre, Agrotechnology and Food Innovations BV</b> <b>SONAC Vuren B.V. [a SOBEL company]</b> <b>ECN Netherlands Energy Research Foundation</b>

	<b>TNO-MEP</b>
	<b>TNO - The Netherlands Organisation for Applied Scientific Research, Microbial Production Processes Group.</b>
	<b>SCHOTHORST Feed Research B.V., The Netherlands</b>
<u>POLAND</u>	Research Institute of Pomology and Floriculture
<u>PORTUGAL</u>	ICETA - University of Porto, Faculty of Pharmacy, Laboratory of Bromatology and the Laboratory of Pharmacognosy, Portugal
<u>SPAIN</u>	CSIC-CEBAS Dpt. Soil and Water Conservation Campus Universitario de Espinardo, Murcia
	<b>CSIC-CINDOC Centro de Información y Documentación Científica</b>
	<b>University of Granada</b>
<u>U.K.</u>	Fairey Industrial Ceramics Ltd.
	The University of Reading (Soil Science, School of Human and Environmental Sciences)
	Brimac Carbon Services Ltd.
	Sutcliffe Speakman Carbon Ltd. - Waterlink (part of CALGON CARBON Corp.)
	MCS Ltd.
<u>UNITED NATIONS</u>	APCTT Asian-Pacific Center for Technology Transfer
<u>USA</u>	<b>University of Maryland</b> (Dept. Mechanical Engineering)