

Green Fleet Technology Study For Public Transport

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Partnership Environment Reporter Energy and Water Development Appropriations for 2008

From Polaris to Trident

This edited volume presents the proceedings of the 20th CIRP LCE Conference, which cover various areas in life cycle engineering such as life cycle design, end-of-life management, manufacturing processes, manufacturing systems, methods and tools for sustainability, social sustainability, supply chain management, remanufacturing, etc.

Science at Sea

Forty Ways to Make Government Purchasing Green

PAS Memo

Microlog, Canadian Research Index

Nonprofit Guide to Going Green

NOAA's Ocean Fleet Modernization Study

Commercial Aircraft Propulsion and Energy Systems Research

Oceanology International and Offshore Technology

Hybrid Distribution Trucks

Urbanism in the Age of Climate Change

Fleet Owner

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light- Duty Vehicles

In 1974, a scientific conference covering marine automation group and large vessels issues was organized under the patronage of the Technical Naval Studies Centre (CETENA) and the Italian National Research Council (CNR). A later collaboration with the Marine Technical Association (ATENA) led to the renaming of the conference as NAV, extending the topics covered to the technical field previously covered by ATENA national conferences. The NAV conference is now held every 3 years, and attracts specialists from all over the world. This book presents

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the proceedings of NAV 2018, held in Trieste, Italy, in June 2018. The book contains 70 scientific papers, 35 technical papers and 16 reviews, and subjects covered include: comfort on board; conceptual and practical ship design; deep sea mining and marine robotics; protection of the environment; renewable marine energy; design and engineering of offshore vessels; digitalization, unmanned vehicles and cyber security; yacht and pleasure craft design and inland waterway vessels. With its comprehensive coverage of scientific and technical maritime issues, the book will be of interest to all those involved in this important industry.

Bacon's Media Calendar Directory

The primary human activities that release carbon dioxide (CO₂) into the atmosphere are the combustion of fossil fuels (coal, natural gas, and oil) to generate electricity, the provision of energy for transportation, and as a consequence of some industrial processes. Although aviation CO₂ emissions only make up approximately 2.0 to 2.5 percent of total global annual CO₂ emissions, research to reduce CO₂ emissions is urgent because (1) such reductions may be legislated even as commercial air travel grows, (2) because it takes new technology a long time to propagate into and through the aviation fleet, and (3) because of the ongoing impact of global CO₂ emissions. Commercial Aircraft Propulsion and Energy Systems Research develops a national research agenda for reducing CO₂ emissions from commercial aviation. This report focuses on propulsion and energy

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technologies for reducing carbon emissions from large, commercial aircraft— single-aisle and twin-aisle aircraft that carry 100 or more passengers—because such aircraft account for more than 90 percent of global emissions from commercial aircraft. Moreover, while smaller aircraft also emit CO₂, they make only a minor contribution to global emissions, and many technologies that reduce CO₂ emissions for large aircraft also apply to smaller aircraft. As commercial aviation continues to grow in terms of revenue-passenger miles and cargo ton miles, CO₂ emissions are expected to increase. To reduce the contribution of aviation to climate change, it is essential to improve the effectiveness of ongoing efforts to reduce emissions and initiate research into new approaches.

Were You Born a Dragon?

Research and Publications

Traffic Engineering & Control

Join Steven and his father as they take his newborn sister Rachel to the Land of Dragons. There they must receive the blessing of the King of Dragons so that they can raise her to be a dragon. But first they must get past Arnod, the Chief Security Dragon who doesn't like babies. This is a story of brotherly love for his new sister as he protects her on the long voyage and stands up to a dragon that likes to be a bully. It is just

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one of the stories the author told his daughter as she was growing up. She believed the stories as much as she believed in Santa Claus. We hope you will believe in them as well and in the power of love.

Re-engineering Manufacturing for Sustainability

World of Learning 2005 Vol2

Contains information on international organizations and individual chapters on academic institutions in countries from Afghanistan to Zimbabwe. A comprehensive index is included in both volumes.

Serials in the British Library

The 21st Century Truck Partnership (21CTP) works to reduce fuel consumption and emissions, increase heavy-duty vehicle safety, and support research, development, and demonstration to initiate commercially viable products and systems. This report is the third in a series of three by the National Academies of Sciences, Engineering, and Medicine that have reviewed the research and development initiatives carried out by the 21CTP. Review of the 21st Century Truck Partnership, Third Report builds on the Phase 1 and 2 reviews and reports, and also comments on changes and progress since the Phase 2 report was issued in 2012.

Future Powertrain Technologies

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The definitive, practical, go-to resource guide on helping all charities become more "green" Nonprofit Guide to Going Green is your comprehensive learning tool to guide nonprofits and NGOs towards becoming greener. A desktop reference for any charitable organization to become greener, this essential book gives your organization the support it needs to take proactive steps to protect the environment while fulfilling its mission. Timely and clearly written, with contributions from experts from around the globe, Nonprofit Guide to Going Green leads the way in helping charities in all countries meet this challenge. Helps nonprofits green their efforts and carbon footprint * Shows CEOs, presidents, deans, marketing officers, board members proactive steps they can take to protect the environment * Teaches how to do a self-audit and plan for a more environmentally sensitive future * Nonprofit Guide to Going Green delivers a timely and essential call to action for this new century. Can your organization afford not to "go green?"

Marine Technology and SNAME News

David Bellamy is a natural story teller whose memoir will be packed full of funny anecdotes and observations. It is the story of how a city boy, brought up in the middle of London, went for a trip into the countryside one day, an event which was to transform his life by setting in motion the amazing love of nature which would make famous this larger-than-life character. In his infectious style he illumines on, amongst other things, the fact that his father, the

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manager of a branch of Boots, had to grease his hair straight - because in those days managers of Boots weren't allowed to have curly hair! Then there was the time he and his brother discovered an exploded bomb, kept in the garden shed - and then accidentally blew off the front of the house with it. He reveals his secret passion is ballet dancing - and how his mother only found out about it when she saw him on stage at the Fairfield Hall in Croydon. His career as an academic, then author, broadcaster, consultant and television personality, spans 35 years and his main passion - campaigning for the environment - have led to many adventures including his being twice imprisoned in the Third World.

Sea Technology

This book provides a complete history of the US Fleet Ballistic Missile programme from its inception in the 1950s and the development of Polaris to the deployment of Trident II in 1990. Writing in an accessible yet scholarly manner, Graham Spinardi bases his historical documentation of FBM development on interviews with many of the key participants. His study confronts a central issue: is technology simply a tool used to achieve the goals of society, or is it an autonomous force in shaping that society? FBM accuracy evolved from the citybusting retaliatory capability of Polaris to the silo-busting 'first strike' potential of Trident. Is this a case of technology 'driving' the arms race, or simply the intended product of political decisions? The book provides a comprehensive survey of the literature on the role of

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technology in the arms race, and seeks to explain technological development using a 'sociology of technology' approach.

Transitions to Alternative Vehicles and Fuels

Guide to Science and Technology in the USA

The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of

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Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

The Green Book

The report covers a detailed study of the morphology and ecological distribution of 11 species in 9 genera of gammarid amphipods collected offshore in the eastern Gulf of Mexico. It is based upon large series of specimens of all ages obtained during a study of biofouling conducted off Panama City, Florida. A new species is noted in the genus *Microjassa* (description to be published elsewhere), and a second species, in the genus *Stenothoe*, appears to be undescribed, but confirmation awaits further literature study in an obscure journal. Additional contributions of this study are insights into the range of morphological variation displayed by individuals of a single species from one

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locale, a delineation of the development of certain secondary sexual characteristics that have been a source of confusion in the literature, an outline of the development of gammarid populations on virgin surfaces, and the impact of certain physical factors on the life cycles of selected species. (Author).

Jolly Green Giant

“Cities are green” is becoming a common refrain. But Calthorpe argues that a more comprehensive understanding of urbanism at the regional scale provides a better platform to address climate change. In this groundbreaking new work, he shows how such regionally scaled urbanism can be combined with green technology to achieve not only needed reductions in carbon emissions but other critical economies and lifestyle benefits. Rather than just providing another checklist of new energy sources or one dimensional land use alternatives, he combines them into comprehensive national growth scenarios for 2050 and documents their potential impacts. In so doing he powerfully demonstrates that it will take an integrated approach of land use transformation, policy changes, and innovative technology to transition to a low carbon economy. To accomplish this Calthorpe synthesizes thirty years of experience, starting with his ground breaking work in sustainable community design in the 1980s following through to his current leadership in transit-oriented design, regional planning, and land use policy. Peter Calthorpe shows us what is possible using real world examples of innovative design strategies and forward-

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thinking policies that are already changing the way we live. This provocative and engaging work emerges from Calthorpe's belief that, just as the last fifty years produced massive changes in our culture, economy and environment, the next fifty will generate changes of an even more profound nature. The book, enhanced by its superb four-color graphics, is a call to action and a road map for moving forward.

Current Literature in Traffic and Transportation

When China Ruled the Seas

A Taxonomic and Ecological Study of Selected Benthonic Gammarid Crustaceans from the Northeastern Gulf of Mexico

Aviation Week & Space Technology

One hundred years before Columbus and his fellow Europeans began their voyages of discovery, fleets of giant junks commanded by the eunuch admiral Zheng He and filled with the empire's finest porcelains, lacquerware, and silk ventured to the world's "four corners." Seven epic expeditions brought China's treasure ships across the China Seas and Indian Ocean, from Japan to the spice island of Indonesia

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and the Malabar Coast of India, on to the rich ports of the Persian Gulf and down the East African coast, to China's "El Dorado," and perhaps even to Australia, three hundred years before Captain Cook's landing. It was a time of exploration and expansion, but it ended in a retrenchment so complete that less than a century later, it was a crime to go to sea in a multimasted ship. In *When China Ruled the Seas*, Louise Levathes takes a fascinating and unprecedented look at this dynamic period in China's enigmatic history, focusing on the country's rise as a naval power that briefly brought half the world under its nominal authority. Drawing on eyewitness accounts, official Ming histories, and African, Arab, and Indian sources, many translated for the first time, Levathes brings readers inside China's most illustrious scientific and technological era. She sheds new light on the historical and cultural context in which this great civilization thrived, as well as the perception of China by other contemporary cultures. Beautifully illustrated and engagingly written, *When China Ruled the Seas* is the fullest picture yet of the early Ming dynasty—the last flowering of Chinese culture before the Manchu invasion.

Technology and Science for the Ships of the Future

For a century, almost all light-duty vehicles (LDVs) have been powered by internal combustion engines operating on petroleum fuels. Energy security concerns about petroleum imports and the effect of greenhouse gas (GHG) emissions on global climate

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are driving interest in alternatives. Transitions to Alternative Vehicles and Fuels assesses the potential for reducing petroleum consumption and GHG emissions by 80 percent across the U.S. LDV fleet by 2050, relative to 2005. This report examines the current capability and estimated future performance and costs for each vehicle type and non-petroleum-based fuel technology as options that could significantly contribute to these goals. By analyzing scenarios that combine various fuel and vehicle pathways, the report also identifies barriers to implementation of these technologies and suggests policies to achieve the desired reductions. Several scenarios are promising, but strong, and effective policies such as research and development, subsidies, energy taxes, or regulations will be necessary to overcome barriers, such as cost and consumer choice.

Congressional Record

Marine Technology Society Journal

The U.S. academic research fleet is an essential national resource, and it is likely that scientific demands on the fleet will increase. Oceanographers are embracing a host of remote technologies that can facilitate the collection of data, but will continue to require capable, adaptable research vessels for access to the sea for the foreseeable future. Maintaining U.S. leadership in ocean research will require investing in larger and more capable general purpose Global and Regional class ships; involving the

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scientific community in all phases of ship design and acquisition; and improving coordination between agencies that operate research fleets.

Hybrid & Electric Vehicle Progress

Oceanology International Offshore Technology

Department of Toxic Substances Control Pollution Prevention Report and 2-year Workplan

Review of the 21st Century Truck Partnership

Environment Reporter

Energy and Water Development Appropriations for 2008

Among the various factors greatly influencing the development process of future powertrain technologies, the trends in climate change and digitalization are of huge public interest. To handle these trends, new disruptive technologies are integrated into the development process. They open

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up space for diverse research which is distributed over the entire vehicle design process. This book contains recent research articles which incorporate results for selecting and designing powertrain topology in consideration of the vehicle operating strategy as well as results for handling the reliability of new powertrain components. The field of investigation spans from the identification of ecologically optimal transformation of the existent vehicle fleet to the development of machine learning-based operating strategies and the comparison of complex hybrid electric vehicle topologies to reduce CO2 emissions.

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