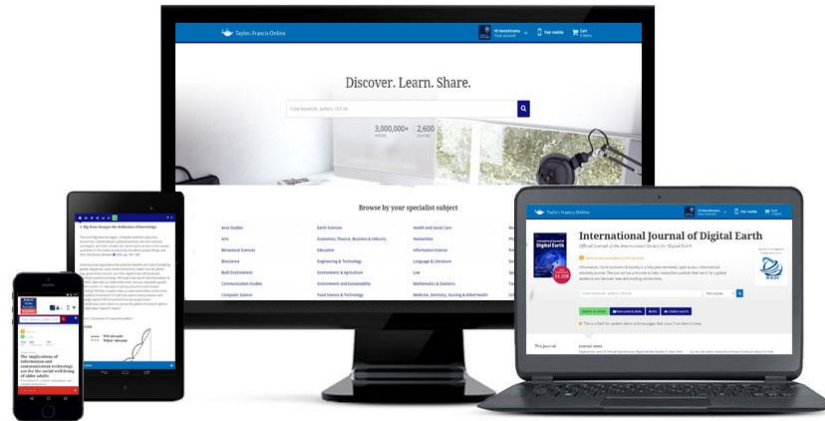




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DU ammunition
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ammunition under
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The question of the
necessity (and
prospects) of the
successful
negotiation of a
convention
banning the use,
transfer and
stockpiling of DU

Notes on

Abstract

This article examines whether the use of Depleted Uranium (DU) munitions can be considered illegal under current public international law. The analysis covers the law of arms control and focuses in particular on international humanitarian law. The article argues that DU ammunition cannot be addressed adequately under existing treaty based weapon bans, such as the Chemical Weapons Convention, due to the fact that DU does not meet the criteria required to trigger the applicability of those treaties. Furthermore, it is argued that continuing uncertainties regarding the effects of DU munitions impedes a reliable review of the legality of their use under various principles of international law, including the prohibition on employing indiscriminate weapons; the prohibition on weapons that are intended, or may be expected, to cause widespread, long-term and severe damage to the natural environment; and the prohibition on causing unnecessary suffering or superfluous injury. All of these principles require complete knowledge of the effects of the weapon in question. Nevertheless, the author argues that the same uncertainty places restrictions on the use of DU under the precautionary principle. The paper concludes with an examination of whether or not there is a need for – and if so whether there is a possibility of achieving – a Convention that comprehensively outlaws the use, transfer and stockpiling of DU weapons, as proposed by some non-governmental organisations (NGOs).

Keywords: adverse effects of depleted uranium, depleted uranium ammunition, international humanitarian law, law of armed conflict, precautionary principle, principle of distinction, principle of proportionality, prohibition to cause unnecessary suffering and superfluous injury.

Introduction

Depleted uranium (DU) is a nuclear by-product of the process of enriching uranium ore for nuclear fuel. Each kilogram of reactor-ready enriched uranium leaves around seven kilograms of DU. Its military utility derives from its low acquisition costs and the armour piercing capability that results from its high density and pyrophoricity.¹ DU ammunition is used for instance by the United States' A-10 Thunderbolt Aircraft (commonly known by the nickname 'Warthog') and the M1/M1A1/M1A2 Abrams Tanks, as well as by the French AMX-30 and Leclerc tanks.

The use of DU weapons became controversial and a matter of public concern following the first Gulf War in 1991, developing further after the conflicts in Bosnia, Kosovo and Afghanistan, as well as the 2003 invasion of Iraq.² The public debate emerged as a result of the alleged adverse effects of DU on human health. As discussed in detail previously in this journal,³ exposure to DU has been linked to severe health problems, in particular cancer and kidney dysfunction in members of the armed forces, as well as in civilians that have been exposed to DU. The three key means of DU exposure are inhalation of dust, shrapnel wounds, and ingestion of contaminated food, soil and water.⁴ However, a direct causal link between environmental DU exposure and ill health has yet to be established,² p.28 and the alleged adverse effects of DU are disputed, in particular by key 'DU user' states such as the United States.⁵ The issue has recently been discussed by the United Nations General Assembly, the European Parliament and the Council of Europe. All three bodies called for comprehensive studies into the effects of DU.⁶ Settling the dispute about its effects will indeed require comprehensive long-term studies on populations exposed to DU contamination. Long-term studies are particularly necessary in view of the long time periods required for cancers to develop following exposure.

The uncertainty regarding the adverse effects of DU makes the issue of its legality somewhat different from the weapons-related issues that international humanitarian law has had to face in the past, where

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Judyta Kosińska ✉, Grzegorz Boczkaj, Grażyna Gałęzowska, Joanna Podwysocka, Andrzej Przyjazny & Marian Kamiński

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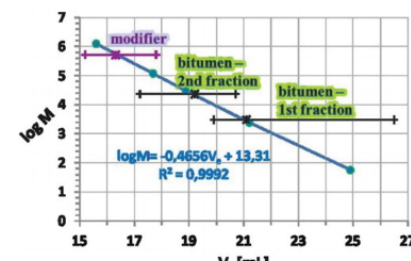
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Abstract

This paper describes application of high-performance gel permeation/size-exclusion chromatography (GPC/SEC) for the determination of content of polymer modifiers in modified road bitumens. The obtained results were compared with the measurements based on the procedure recommended by the American Association of State Highway and Transportation Officials, which employs Fourier transform mid-infrared spectroscopy. Two most commonly used modifiers of paving bitumens, namely, styrene-butadiene-styrene and styrene-butadiene copolymers as well as modified bitumens sampled from various streets in the city of Gdansk (Poland), were investigated. This work confirmed the ability of GPC/SEC to distinguish modified road bitumens from unmodified ones. The developed methodology is particularly important in quality control of modified bitumens, as well as in arbitration analysis when there is a suspicion that the amount of modifier added to bitumen was lowered or that the material does not meet the specifications concerning the modifier content.



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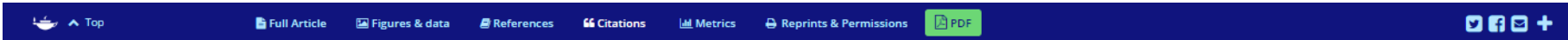
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Sound Finder: a new software approach for localizing animals recorded with a microphone array

2014-02-17T10:26:56Z (GMT) by David R. Wilson , Matthew Battiston , John Brzustowski , Daniel J. Mennill

<div><p>Acoustic localization is a powerful technique for monitoring the positions, movements and behaviours of terrestrial animals. However, its prevalence in biological studies has been constrained by hardware and software that are custom-built, expensive and difficult to use. We recently helped to relieve the hardware constraint by describing a microphone array that is affordable, portable, easy to use and commercially available. Here, we help to relieve the software constraint by developing an acoustic localization program called "Sound Finder", which is easy to use, freely available and accurate for a variety of animals and recording conditions. It runs in the free software environment R, and in spreadsheet programs such as Microsoft Excel and the open-source software LibreOffice. In this study, we describe how Sound Finder functions, and then test its accuracy by localizing natural sounds that were broadcast through loudspeakers and re-recorded with microphone arrays. We quantify Sound Finder's accuracy by comparing its location estimates with known loudspeaker locations and with output from other localization approaches. We show that Sound Finder generates accurate location estimates for a variety of animal sounds, microphone array configurations and environmental conditions. Furthermore, Sound Finder generates an error value that allows the user to assess its accuracy. In conclusion, Sound Finder provides accurate estimates of a vocalizing animal's location. It is easy to use, requires only widespread and affordable software and is freely available in a standard form as Supplementary material to this article.</p></div>

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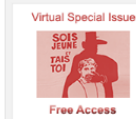
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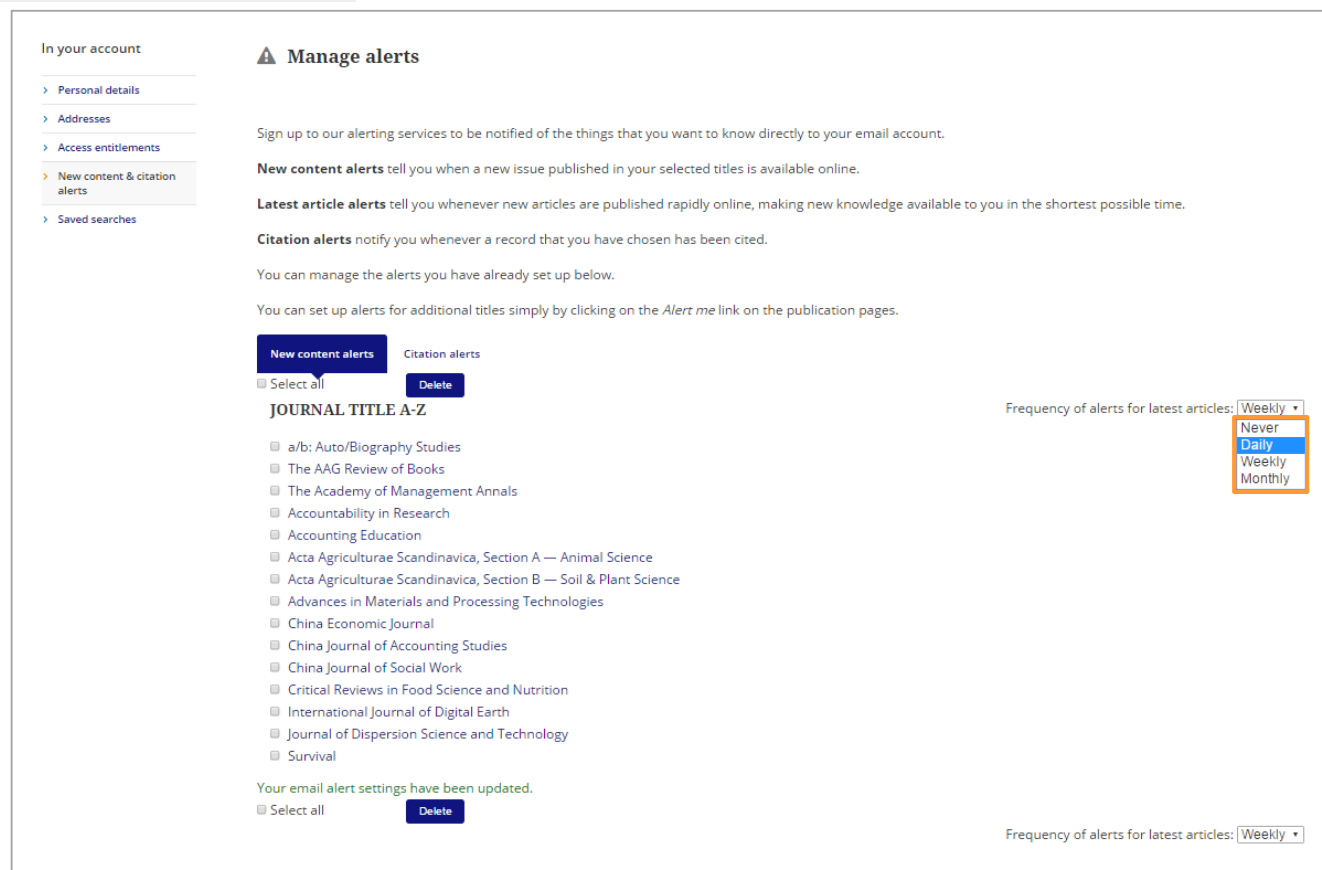


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Story Archive

> October 2016

> August/September 2016

The Story behind the home page image

The image on the home page for October 2016 shows students doing their research in the Nanyang Technological University Library in Singapore. We are very grateful to the Nanyang Technological University Library and students Wynne Effendy and Philip Yang for allowing us to showcase the library and its use by students.

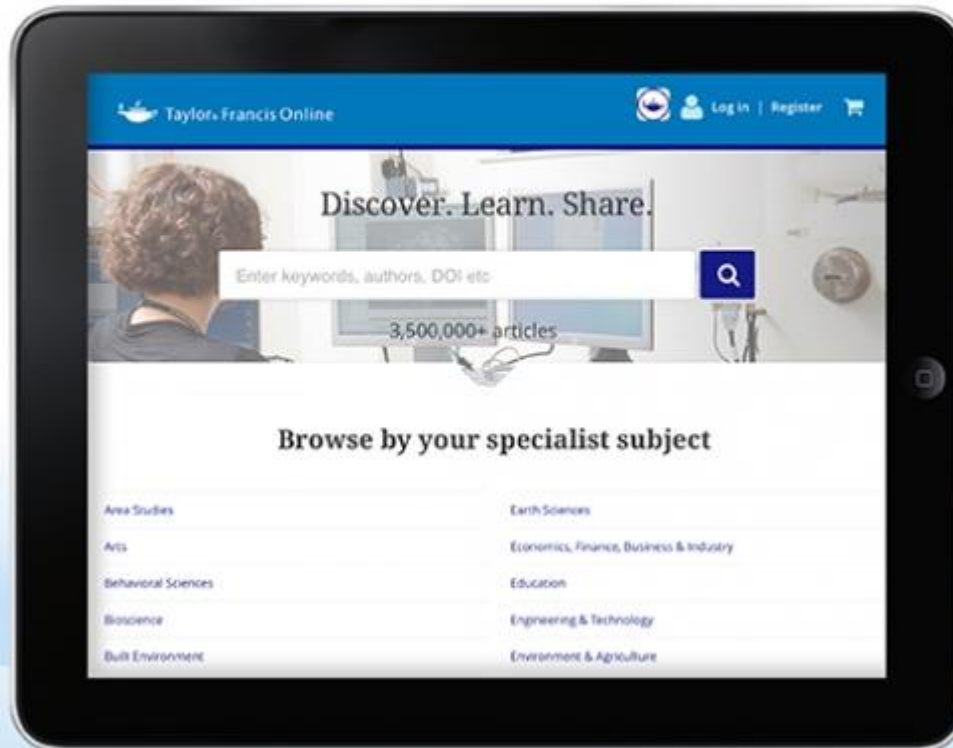
The images show how library spaces in institutions have evolved from a purely functional space to one that is inviting, with areas softened by ambient greens and gentle lighting.



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