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[Eagle River Flats Remediation Project Comprehensive Bibliography - 1998 to 2003](#) Aug 2003 54 pages

Authors: [Michael R. Walsh](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER HANOVER NH COLD REGIONS RESEARCH AND ENGINEERING LAB](#)

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White phosphorus (WP) has been implicated in the deaths of thousands of waterfowl annually at Eagle River Flats (ERF), an estuarine salt marsh located on Fort Richardson near Anchorage, Alaska. The source of WP contamination at ERF was the firing of WP-containing munitions into the area by the U.S. military. WP is a well known toxicant and is lethal to a wide range of species. However, WP contamination at ERF is the first documented case of a U.S. Army munitions impact area contaminated with WP particles. This has led to the designation of ERF as a Superfund site by the U.S. ...

[Use of Military Demolition Explosives in a Remediation Project](#) Oct 2003 35 pages

Authors: [Michael R. Walsh](#); [Charles M. Collins](#); [Michael T. Meeks](#); [Alvin O. Lee](#); [Eric G. Wahlgren](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER HANOVER NH COLD REGIONS RESEARCH AND ENGINEERING LAB](#)

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Control of surface and subsurface water is a critical factor in the efficiency of remediation efforts at Eagle River Flats, an active impact range on Fort Richardson, Alaska, contaminated with particulate **white phosphorus** from artillery and mortar rounds. The Flats is an estuarine salt marsh bordered by bluffs with water groundwater influx from the edges as well as periodic tidal and river inundation and rain events. The uneven topography and presence of ...

[Catalytic Oxidation of Volatile Organic Liquids](#) Mar 2004 10 pages

Authors: [Shane E. Roark](#); [Jimena Cabrera-Fonseca](#); [Michael C. Milazzo](#); [James H. White](#); [Joseph D. Wander](#); [AIR FORCE RESEARCH LAB TYNDALL AFB FL](#)

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... of organic contaminants in air to acceptable levels before the air is released into the atmosphere or recirculated. Specific applications include ventilated work spaces for spray painting and engine maintenance, indoor air decontamination, dry cleaning, food processing, fume hoods, residential use, and solvent-intensive industrial processes. Catalyst powders and monolith-supported catalysts were screened for conversion of 1-butanol, toluene, and methyl ethyl ketone to carbon dioxide and water. ... However, the catalysts quickly deactivated in the presence of sulfur and **phosphorus**.

[Hydrolysis of Phosphorus Esters: A Computational Study](#) Apr 2005 33 pages

Authors: [J. B. Wright](#); [Gerald H. Lushington](#); [Margaret Hurley](#); [William E. White](#); [EDGEWOOD CHEMICAL BIOLOGICAL CENTER ABERDEEN PROVING GROUND MD](#)

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Computational chemistry was used to elucidate the reaction paths, transition structures, and energies of activation for the hydrolysis of a series of phosphinate, phosphonate, and phosphate esters. Calculations were performed at the Hartree-Fock level of theory with the density functional theory and 2nd order Moller-Plesset level using the 6-311G(2d,2p) basis set. The SCI-PCM continuum solvation model was also used to determine the roll that solvation plays in stabilizing the various transition structures. Transition structures containing one and/or two water molecules had lower energies than ...

[Screening Level Ecological Risk Assessments of Some Military Munitions and Obscure-related Compounds for Selected Threatened and Endangered Species](#) Oct 2006 255 pages

Authors: [Katherine Von Stackleberg](#); [Craig Amos](#); [C. Butler](#); [Thomas Smith](#); [J. Famely](#); [M. McArdle](#); [B. Southworth](#); [Jeffrey Steevens](#); [ENGINEER RESEARCH AND DEVELOPMENT CENTER CHAMPAIGN IL CONSTRUCTION ENGINEERING RESEARCH LAB](#)

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... munitions. This study evaluates the potential long-term impacts on selected threatened and endangered species resulting from dispersion and deposition of vapors and particles found in the fog oils, hexachloroethane smoke, colored smokes, **white phosphorus**, and obscurants such as brass flakes and graphite flakes used during training. Residue from these constituents can deposit directly on plants and prey species favored by higher vertebrates and other species ...

[Combat Burn Life Support: A Military Burn-Education Program](#) Apr 2005 5 pages

Authors: [David J. Barillo](#); [Leopoldo C. Canclio](#); [Brad G. Hutton](#); [Paul J. Mittelsteadt](#); [Glen E. Gueller](#); [John B. Holcomb](#); [ARMY INST OF SURGICAL RESEARCH FORT SAM HOUSTON TX](#)

... for patient transfer. In preparation for hostilities in Iraq, we developed several add-on modules to the standard Advanced Burn Life Support course to meet specific needs of military audiences. These modules cover the

[Full Text](#) treatment of **white phosphorus** burns; the treatment of mustard gas exposure; the long- range aeromedical transfer of burn patients; the management of burn patients beyond the first 24 hours; and the delivery of burn care in austere environments. These ...

[UV/Blue III-Nitride Micro-Cavity Photonic Devices](#)

Mar 4, 2002 5 pages

Authors: [Hongxing Jiang](#); [Jingyu Lin](#); [III-N TECHNOLOGY INC MANHATTAN KS](#)

[Full Text](#) ... Phase I optional phase duration, we learned how to achieve **white** light emission from InGaN/GaN QW micro-size emitters. We have employed three-color emitting (red-blue-green) **phosphorus** coating on near UV micro-size LEDs and conventional LEDs to obtain **white** light emission. Comparing with coating an yellow-emitting phosphor on ... LEDs, the three-color phosphors approach yielded improved **white** light color rendering. We have also further ... the optional phase laid the groundwork for the development of solid-state **white** lighting, which is a technology with an enormous market interest worldwide ...

[Electrical Compensation in InP Produced by Background Impurities and Structural Defects](#)

Oct 1980 25 pages

Authors: [B. L. Mattes](#); [MICHIGAN UNIV ANN ARBOR ELECTRON PHYSICS LAB](#)

[Full Text](#) ... a low humidity (<20% relative) room the reproducibility of epitaxial growths has been improved. The discoloration of the bone **white** pyrolytic boron nitride growth cell has helped to identify several sources of contamination that oxidize the In-melt and lead to premature nucleation. The nucleation and growth of epitaxial InP now appears to be limited by **phosphorus** transport instabilities in the P-saturated In-melt. A thermochemical analysis of **phosphorus** equilibria with In and InP may provide an insight into liquid solid stability conditions. The results are in excellent agreement with the ...

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