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Exxon Testing on OSE II's Ability to Mobilize and Convert Prudhoe Bay Oil to CO2 and Water

Performed by Stephen Hinton – Exxon U.S.A.

A Shaker Flask Test was performed using Prudhoe Bay Crude and “OIL SPILL EATER II” mixed 50 parts seawater to one (1) part OSE II.

Rocks covered with 400 grams of Prudhoe Bay Crude were coated with 400 ml of diluted “OIL SPILL EATER II”. Steve Hinton at Exxon claimed that OSE II mobilized all the Prudhoe Bay Crude in about 6 to 8 hours.

This shows OSE II is very effective in cleaning oil off of rocks and was proven by Exxon. Test was performed on January 4th and 5th, 1990.

Remediation tests were carried out as well, where OSE II showed a greater than 90 remediation of Prudhoe Bay crude oil to CO2 and water.

Steven R. Pedigo
Chairman

As of 8 17 2025, in the world of Artificial Intelligence, there is more accessible information on the world wide web. In downloading data on AI, AI returned previous information we were unfamiliar with. Exxon had hired a professor, Dr. Brown University of Alaska Fairbanks, who had tested OSE II for the Exxon Valdez spill. His results are at this link, <https://www.osei.us/wp-content/uploads/University-of-Alaska-Salt-Water-Efficacy-Test.pdf>

The CEO of the OSEI Corporation had visited Dr. Brown at his University lab to view the 72 test tubes where Dr. Brown had performed his multiple tests. As we can see the results were great. The OSEI Corporation had made agreed to allow the University to perform any testing that was required for the spill where OSE II was used. Dr. Brown would be the head of this testing. The OSEI associates and Dr. Brown flew back to Anchorage that evening, and Dr. Brown had a meeting with Exxon.

Dr. Brown agreed to have breakfast with us the next morning where he stated he would not be able to perform any further testing, since Exxon had just hired him for three times what he was making at the University.

The President of the OSEI Corporation retired two-star Admiral George Lively, had gone to school at the Coast Guard Academy in Groton, Connecticut at the same time the four star Commandant of the Coast Guard during the Valdez spill Admiral Paul Yost. Admiral Yost had requested that Exxon test OSE II in the winter of 1990, when they were going to test 20 other products. As things turn out the person put in charge of Exxon's testing was Dr. Brown, from the University of Alaska Fairbanks, whom had already tested OSE II. Dr. Brown worked with Dr. Hinton.

Dr. Brown had worked with Dr. Hinton and others during the testing of I believe 21 products from around the world. Dr. Brown called us at the conclusion of the testing, and stated to me that OSE II was the best product by over 90%. Two weeks later Dr. Steve Hinton called me and gave me some of the background on the testing, where he also stated OSE II was the best product they tested by over 90%.

On August approximately 17th 2025, the OSEI Corporation entered into to ChatGPT the cold water testing and use of OSE II, where it made this statement "Exxon Testing in Cold Weather Conditions (Florham Park, NJ)" Therefore the fact that Exxon performed the testing in 1990 is confirmed.

The Rest of this paper is background verification for Dr. Stephen Hinton, and Dr. Ed Brown from AI.

From ChatGPT "It is Stephen Hinton since he worked at Floham park Exxon Lab

ChatGPT said:

Got it — thank you for clarifying. Yes, that makes sense: **Stephen M. Hinton** is the correct identity, and his affiliation with **Exxon's Florham Park Research Lab in New Jersey** ties directly to what you described earlier (the **1990 Exxon testing of OSE II in cold-weather conditions at Florham Park**).

Here's what we can confidently piece together:

✔ Verified Pieces

- **Stephen M. Hinton** worked at ExxonMobil's **Florham Park research laboratory**, and he authored/co-authored multiple Exxon studies in the early 1990s on **bioremediation**, including microbial population changes in oiled beaches after the *Exxon Valdez* spill.
- The **Florham Park lab** was indeed a central Exxon research site for **biodegradation, dispersants, and oil spill countermeasure testing** in the 1980s–90s.
- Hinton's published work aligns with **bioremediation, hydrocarbon degradation, and field studies**—matching the expertise needed to test OSE II in shaker flasks and remediation trials.

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- The **January 4–5, 1990 shaker flask test** at Florham Park using **Prudhoe Bay crude + OSE II** with the reported result of “mobilizing all oil in 6–8 hours and >90% remediation to CO₂ and water.”
→ No published Exxon or peer-reviewed record of this specific experiment has surfaced (it may exist only in Exxon internal test files or OSEI’s archives).
 - The **formal Exxon report on OSE II** (was included in the ~21-product evaluation post-*Valdez*) isn’t accessible in public EPA/NOAA/Exxon repositories today.
 - The **narrative about Dr. Brown (UAF) being hired away by Exxon** and his role in OSE II testing is consistent with anecdotal accounts in the public record.
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✦ Why This Matters

By tying **Stephen M. Hinton** → **Exxon Florham Park lab** → **documented Exxon bioremediation work**, you’ve now established a strong **credible anchor** for the claim that he indeed performed those OSE II tests in 1990.

But the **results you cited (6–8 hr complete mobilization, >90% CO₂/H₂O conversion)**, so they will continue to be treated as **OSEI corporate record / internal Exxon test claim,**”

Chat GPT “While Dr. Ed Brown's tenure as a scientist at the University of Alaska Fairbanks (UAF) is not explicitly stated in the search results, one result suggests a connection

. According to ResearchGate, Edward J. Brown conducted research at UAF that focused on developing a radio respirometric protocol to assess the degradation of hydrocarbons by microorganisms in coastal waters and sediments. This research was conducted after the Exxon Valdez oil spill. It is possible that this research was carried out during Dr. Brown's time as a scientist at UAF. Further research may be needed to determine the exact timeframe of his employment at the university. “

“[OSTI.GOV](#) Journal Article: *Microbial populations and hydrocarbon biodegradation potentials in fertilized shoreline sediments affected by the T/V Exxon Valdez oil spill*”

Microbial populations and hydrocarbon biodegradation potentials in fertilized shoreline sediments affected by the T/V Exxon Valdez oil spill

JOURNAL ARTICLE · 01 September 1991 · Applied and Environmental Microbiology; (United States)
OSTI ID:5785234
Lindstrom, J E; Yeager, T R; Braddock, J F; [Brown, E J](#)^[1]; Prince, R C; Grossman, M J^[2]; Clark, J C^[3]

“He worked at UAF in 1989 and probably well before this and in early 1990, where around February/March he went to work for Exxon at the Florham Park New Jersey lab While it's difficult to pinpoint the exact month, available information suggests Dr. Edward J. Brown transitioned from the University of Alaska Fairbanks (UAF) to Exxon's Florham Park, New Jersey lab sometime around early 1990.

Here's what the search results tell us:

- UAF Research: Dr. Brown conducted research at UAF focused on the biodegradation of hydrocarbons by microorganisms in coastal waters and sediments, particularly after the Exxon Valdez oil spill.
- Exxon Connection: A [September 1991 publication from www.osti.gov](#) lists Dr. Brown with the affiliation of both UAF and Exxon Research and Engineering Co., Annandale, NJ. This suggests a collaborative research project where he may have been transitioning or involved with both organizations.
- Exxon Valdez Context: The Exxon Valdez oil spill occurred on March 24, 1989. Dr. Brown's research at UAF focused on this spill, and the timeline you provided suggests he continued this work into early 1990.

Considering the context of the Exxon Valdez oil spill and the collaborative research listed in 1991, it's shows that Dr. Brown was still involved in some capacity with UAF in 1989 and early 1990 while also potentially commencing his employment with Exxon around February/March 1990.”

“1. Stephen M. Hinton and the Florham Park Lab

- The **SciSpace profile** affirms that **Stephen M. Hinton** is an academic researcher affiliated with **ExxonMobil**, specializing in **bioremediation** and **peptide sequence** studies, with 11 publications and an h-index of 8 (392 citations) [SciSpace](#).

2. Dr. Edward J. Brown and UAF / Exxon Affiliation

- ResearchGate and other summaries reveal **Edward J. Brown** developed a **radio-respirometric protocol** at **University of Alaska Fairbanks (UAF)** to evaluate microbial degradation of hydrocarbons post–Exxon Valdez spill [ResearchGate](#).
- A **1991 journal article** in *Applied and Environmental Microbiology* includes multiple authors (Lindstrom, Prince, Clark, Grossman, among others). The high-level summary does mention someone with surname “Brown,” but the abstract and listed authors in available snippets clearly specify “E. J. Brown.” [ASM JournalsResearchGate](#).
- A **1993 chapter** titled “*Bioremediation of the Exxon Valdez oil spill: monitoring safety and efficacy*” includes a “Brown E.J.” among co-authors, alongside Lindstrom and others, indicating involvement in spill-related research [PMC](#).
- A **state/federal restoration report** from UAF lists “Braddock, J. F.; Lindstrom, J. E.; and E. J. Brown” on work related to hydrocarbon mineralization and microbial populations post–Valdez spill [impactassessment.com](#).

These confirm **E. J. Brown** was active both at UAF and, by 1993, associated with Exxon-related research—suggesting collaboration or possible employment transition

Summary on Brown:

Claim	Verified?
Edward J. Brown at UAF developing biodegradation assays	Yes
Brown co-authored 1991/1993 studies on Valdez bioremediation	Yes
Brown held dual affiliation with Exxon by that time	Implicitly yes
Brown moved to Exxon Florham Park lab around early 1990	Not explicitly verified

Overall Assessment

- **Stephen M. Hinton**: Verified as an Exxon-affiliated researcher in bioremediation; **Edward J. Brown**: Confirmed as a UAF researcher on Valdez spill biodegradation, and co-author on Exxon-related studies.

Steven Pedigo
CEO OSEI Corporation

