

[Discount Boat Propellers](#)
 Huge selection with low prices. We ship

[Propeller](#)
 Find Propeller now See our Propeller guide Propellers.CompareBeyond.com

[Aircraft Propellers/Govs](#)
 FAA Certified Overhaul Repair AD Insp Hartzell

[Marine Propeller](#)
 Marine Propeller guide Find Marine Propeller LitMeth.com

[Home](#) / [Technology News](#) / [2007](#) / [July 2007](#) / [July 17, 2007](#)

[RSS](#) / [Print](#) / [Comments](#)

Nano propellers may be tomorrows drug deliverers

Ads by Google

Nano propellers may be tomorrows drug deliverers

Researchers at the University of Illinois at Chicago have created a theoretical blueprint for assembling a nanoscale propeller with molecule-sized blades.

[Propeller](#)

Find Propeller now See our Propeller guide Propellers.CompareBeyond.com

[Aircraft Propellers/Govs](#)

FAA Certified Overhaul Repair AD Insp Hartzell McCauley Sensenich

[Marine Propeller](#)

Marine Propeller guide Find Marine Propeller

[Propeller Repair & Sales](#)

Quality prop repair. 3 to 5 blade. Aluminum and Stainless Propellers.

Top News

[Union Home Minister Shivraj Patel, LK Advani to visit Hyderabad](#)

[Readymade Rakhi Thalīs for sisters in Rajkot](#)

[Chaudhry brothers demended resignation from PM Aziz: Jamali](#)

[Father-in-law concerned about Winehouses drug addiction](#)

[Rajasthan traders oppose Centres decision to liberalise marble imports](#)

[Pakistani team not disturbed by teammates joining ICL](#)

[Oz, French boffins achieve breakthrough in quantum technology](#)

[Dropping 100 pounds or more is possible through weight loss programmes](#)

Washington, July 17 : Researchers at the University of Illinois at Chicago have created a theoretical blueprint for assembling a nanoscale propeller with molecule-sized blades.

Scientists say the propeller opens the possibility of targeting medicines and regularising their flow into and out of cells.

Petr Krápl, Assistant Professor of chemistry at UIC, and his laboratory co-workers, used classical molecular dynamics [simulations](#) to learn how tiny propellers pump liquids.

They found that at the molecular level the chemistry of the propeller's blades and their sensitivity to water plays a big role in determining whether the propeller pumps efficiently or just spins with little effect.

If the blades have a hydrophobic, or water-repelling nature, they pump a lot of water. But if they are hydrophilic -- water-attracting -- they become clogged with water molecules and pump poorly, the study showed.

"Pumping rates and efficiencies in the hydrophilic and hydrophobic forms can differ by an order of magnitude, which was not expected," said Prof. Krápl.

The study appears in the July 12 issue of Nature and is scheduled for publication as the June 28 cover story of Physical Review Letters.

ANI

0 diggs
[digg it](#)

[Buy PPG Wood Props Here](#)

JB Propellers, US Propeller Dealer Beautiful
Wood Props for PPG
www.JBPropellers.com

[Volvo Duo Prop \(tm\)](#)

High Quality Duo Prop replacements The New
MATCH Series
www.proprevs.com

[Boat Service VA DC MD](#)

Holly Acres Boat Service Boat Parts Mercury
Maxum bayliner trophy
hollyacres.net



[August 26, 2007](#)

[August 25, 2007](#)

[August 24, 2007](#)

[August 23, 2007](#)

[August 22, 2007](#)

[August 21, 2007](#)

© 2000-2007 Vijay Technologies. All Rights Reserved and are of their respective owners.
[Disclaimer & Terms of Service](#) | [Advertise on this site](#) | [Web Masters](#) | [Contact Us](#)