

STOCK WATCH

Listings At Close of Market July 13, 2018 • Courtesy of RBC Wealth Management
Dow Jones Closed 25,019.41 562.93 • Prime Rate 5.00% +0.00

| | Close | Week's Change | | Close | Week's Change |
|---------------------------------|--------|---------------|----------------------------|--------|---------------|
| Honeywell (Allied Signal) | 147.60 | 1.78 | Danaher Corp. (Kollmorgen) | 99.20 | -0.13 |
| Becton Dickinson (C.R. Bard) | 247.10 | 4.24 | Merck (Hubbard Farms) | 62.89 | 0.69 |
| Toronto Dominion Bank (TD Bank) | 57.69 | 0.23 | Deluxe (NEBS) | 66.32 | 0.36 |
| PC Connection | 34.06 | 0.01 | Teleflex (Jaffrey) | 275.68 | 1.40 |
| Bank Of America (Fleet) | 28.55 | 0.52 | Timken (MPB Corp.) | 44.75 | 1.35 |
| Corning Inc. | 28.80 | 0.67 | People's United Financial | 18.08 | -0.15 |
| Ametek, Inc. (Precitech) | 73.70 | 1.81 | Dover Corp. (Markem) | 74.91 | 2.01 |

| PRECIOUS METALS | CLOSE | WEEK'S CHANGES |
|-------------------------|----------|----------------|
| Silver (\$ per ounce) | 15.82 | -0.26 |
| Gold (\$ per ounce) | 1,241.20 | -14.60 |
| Platinum (\$ per ounce) | 830.30 | -18.30 |

| COMMODITIES | CLOSE | WEEK'S CHANGES |
|-----------------------------|--------|----------------|
| Wheat (cents per bushel) | 497.00 | -18.25 |
| Corn (cents per bushel) | 354.75 | -18.25 |
| Soybeans (cents per bushel) | 834.25 | -60.25 |
| Cattle (cents per pound) | 107.38 | -1.01 |
| Crude (\$ per barrel) | 71.01 | -2.79 |

The material presented above has been obtained from sources we believe to be reliable and is current as of today. It is not guaranteed as to accuracy and does not purport to be complete. Securities are subject to availability. Prices and yields may vary due to market fluctuations.
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Can AI Sort it Out?

Let's continue our stroll through *MIT Technology Review's* most recent listing of "35 Innovators Under 35" chosen from an initial group of 600 researchers, scientists, and other innovators nominated for their achievements.

After collaborating with doctors in the intensive care unit at Beth Israel Deaconess Medical Center during her PhD studies, Marzyeh Ghassemi realized that one of their biggest challenges was dealing with too much data. So, she designed a suite of machine-learning methods to turn messy clinical data into useful predictions about how patients will fare during a hospital stay. Machine learning excels typically with huge, carefully labelled data sets. But medical data comes in a bewildering variety of formats at erratic frequencies, ranging from daily written doctors' notes to hourly blood tests to continuous heart-monitor data. Ghassemi's algorithms now accurately predict how long patients may stay, and even whether they'll need blood transfusions.

Mustafa Suleyman cofounded an AI company called DeepMind Health to better diagnose disease, including early-stage eye disease, and to help analyze mammograms. He's also focusing on how such technology is used by medical clinicians, launching the DeepMind Ethics & Society to design systems that anticipate and direct algorithms' decision-making processes and their impact on society.

The detailed medical images necessary for diagnosing disease are critically important, but as they

get more detailed, they get more difficult to decipher. So, Shinjini Kundu created an artificial-intelligence system that can analyze them to find patterns undetectable to the naked eye. "If there are hidden changes and there's a way to detect the patterns, maybe we have a chance to diagnose diseases early, before symptoms develop," she says. Kundu's system allows humans to look through the eyes of the computer to discover otherwise imperceptible patterns that reveal the early disease process.

Economy and You

with Dave DuVernay

Will McLean believes he's found a fix for a medical conundrum many thought would never be solved: hearing loss in humans. McLean's research focuses on the cochlea, the spiral-shaped cavity within the inner ear responsible for hearing. At birth, the cochlea contains 15,000 hair cells which detect sound waves and transfer them to the brain. Over time, loud noises and toxic medications kill them, so hearing loss becomes permanent. Using insights from regenerative tissue treatment, McLean exposed damaged mice cochlea to regenerative drugs and many of the

progenitor cells proliferated. Some actually grew hair – the key to hearing.

For decades, the pharmaceutical industry's approach to finding new cancer therapies has been to put tumor cells in a dish and test drug-delivering nanoparticles, one by one, to find one that's effective. Georgia Tech's James Dahlman has invented a radically different process which involves encoding each nanoparticle with a DNA sequence he calls a bar code. Three hundred such nanoparticles can be injected into a lab mouse, and researchers can test the tumor created to determine how each bar code did, all at once. The volume difference is staggering. Dahlman tested 30 particles during his entire PhD, but will test 3000 this year alone.

These young people's accomplishments are simply amazing.

Dave DuVernay held various management positions in subsidiaries of GE, IP, E.F. Hutton, and Chrysler from which he retired as CEO of its real estate investment unit.

Community Forums On Building Better Together

Over the next year, the City of Keene is updating its zoning and permitting processes to create a more efficient experience. Plans are to streamline these regulations to ensure that Keene continues to benefit from new economic opportunities while maintaining the city's character.

Community forums will be held from 6:30 to 7:30 p.m. on: Wednesday, July 18th at Keene Ice at 380 Marlboro Street; Thursday, July 26th at Stone Arch Village Community Room at 835 Court Street; and Wednesday, August 1st in the Antioch University Community Room at 40 Avon Street.

For more details, call Tara Kessler at 603-352-5440, email tkessler@ci.keene.nh.us, or visit www.keenebuildingbetter.com.

"Free Wills For Young Families" In Keene

Ward Legal Group PC, Estate Planning Attorneys, will present its monthly community service program, Free Wills For Young Families, at its 129 West Street, Keene office on the last Tuesday of each month at 3 p.m. This is a free program for parents with young children who cannot afford comprehensive

estate planning. It is an opportunity to make a simple New Hampshire or Vermont Will with provisions to name guardians and protect minor children. To participate, call to register in advance. Couples must attend together; do not bring children. For more details, call 603-352-7310.

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