# High speed is coming ... really!



In Wheaton, Illinois, a lot of people start their morning at the Bits and Bagel Cybercafe. Home-made bagels, gournet coffee and Internet-wired computers let the customers surf the world and feed their hunger for food and information.

But these days, the customers are also gotting something most Net Surfers can only dream of. Fast Internet access. How fastly they would not downloading the intest 11 Megabyto version of the Netscape Communicator web browser in two minutes? If you've tried that with your 28.8 modern, you know that it usually takes a couple of hours. If you're lucky. What does the Bits and Bagel Cybercafe have that we don't? A new high speed technology called ADSL. What it gives me is a "Wow Factor" for my customers, "anys Dwight Hawley, the owner. They come in and, what takes minutes to bring up on the Net with a regular connection, I can do in seconds. Invariably, they take a look at a high bandwidth site with a lot of graphics and go, "Wow."

The technology is called Asymmetrical Digital Subscriber Line, or ADSL. Sometimes, it's just abbreviated as DSL. It uses the existing copper phone lines that already run up and down your street and into your house to deliver Internet speeds up to 1.6 megabits-per-second (Mbps), or about 60 times faster than the 28.8 bits-per-second reseals used by most conventional moderns.

Wheaton was a test city for Ameritech. Last December, Ameritech brought it to Ann Arbor. Now, the company is ready to bring it to the metro Detroit area. Over the next several months, it will be introduced in Royal Oak. (Call 800-910-4369 for information).

"As customers speed more time on the Internet, they've asked us for faster speeds. And this really delivers the reads." claims

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"As customers spend more time on the
Internet, they've asked us for faster speeds.
And this really delivers the goods," claims
Valeri Marks, president of Ameritech Interactive Services. ADSL is what is called a
dedicated connection. That means it's
always on. You don't have to dial in any
where. There's no more busy signals. No disconnects or service interruptions. And
because it is so fast, it's perfect for hungry,
high bandwidth Internet features like realtime video and audio. Eventually, many
believe you'll be able to download full-length
movies over ADSL Internet connections.

There are some limitations, however. For
one thing, you need to be within a mile or so
of an Ameritech ADSL center. Sert of like
cellular phones need to be near cellular

cellular phones need to be near cellular antenna towers. And it's going to take some time for Ameritech to build enough centers around the area to make the service avail-

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When is the service would be?
What high service project?
Gen I was American the experience and the project of the service of the What is ADSL? ADSL is an acropym for Asymmetrical Digral Subscriber Line. ADSL is a new technology that allows information to be transmitted on a telephone line at very high peeds. ADSL serves as a projectment for dial-op linemed scene servicer.

ADSL: Find info at www. ameritech.com/products/data/adsl/index.html.

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able to everyone.

And, it's more expensive. The service will cast \$49.95 per month for unlimited usage, plus a one time installation charge of \$150.

A special ADSL high speed modem is also needed. That runs about \$200 but Ameritech sayet will wave the charge as part of an introductory offer.

Sarah Snyder, an Ameritech spekesperson in Detroit, promises that ADSL will be available within three years for seven out of every 10 customers in Southeastern Michigan. The technology is being tested across the nation by a half dozen Baby bells and other telephone companies. Intel and Microsoft are heavy investors in the technology. Microsoft are heavy investors in the technology.

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By Dan Kegel's ADSL DND Wild (http://www.scotawlinevi.html). This is an admitted to the latest news about availability, and the latest news about availability.

By Dan

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returns. The same cannot be said of past returns and future returns.

By the way, it might interest you to know how standard deviation is presented in the boxed insert.

Since 1970, the S&P has recorded a standard deviation is resented in the boxed insert.

Since 1970, the S&P has recorded a standard deviation of 16.3, meaning that 95 percent of the time its annual return has fallen with in 2 times the standard deviation of 16.4 percent.

Put differently, in about 4 percent of the years, the annual return has fallen within a range of double the standard deviation. That means that only about 4 times in this century has the S&P 500 advanced more than 18.4 percent. Past performance is not a guarantee of future results.

As a potential investor in ABC mutual fund, you must ask yourself if this is the kind of variability, or risk, that you can stomach and survive. If you can, then stick around, enjoy the wild ride, and hope to get the average return as a reward.

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### Photo from page B5

ald's talents provided Lang with some wonderful shots of Jans and defery Ware on the football field and in a wrestling competition.

"I was very happy with the pictures," Lang said. Tim is an excellent photographer in my opinion and he captures some very memorable shots."

Lang first heard about the photo service from another parent and presented the idea of hiring Fitzgerald to the school's sports boosters club. He said most were enthusiastic and quite a few parents agreed to have their sons photographed at a football game.

"A lot of people let these precious moments pass them by and wish they had something like

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