

## Prepare for the wired human

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URL: <http://www.cybertime.net/~ajgood/ch1p1.html>

How'd you like to avoid waiting in lines for the rest of your life? Breeze through everywhere like you owned the place. Watch lights snap on, doors open automatically, money pop out of ATMs as you approach. Never have to show an ID, buy a ticket, carry keys, remember a password. You'd leave stores loaded with packages and waltz right past the cashiers. You wouldn't have to carry a wallet. Ever. Family and friends could find you instantly in any crowd. There's only one catch—you'd need to have a tiny little chip implanted in your body. No big deal. Just ask Kevin Warwick, a British professor who had a silicon-based transponder surgically inserted into his forearm last year.

You'd think from all the attention that the natty professor was jacking chips into his brain like some cheese-ball sci-fi android. Truth is, his modest implant simply turned him into a walking EZ-Pass. Warwick's gizmo—a coil of wire and a few chips embedded in a small glass capsule about a tenth of an inch wide and a little less than an inch long—generates a 64-bit number when zapped by an RF transmitter. A receiver then looks it up in a database.

Animal shelters have implanted millions of these electronic IDs in cats, dogs, and birds. Metal tags can fall off, and tattooed numbers could be placed anywhere and are often hard to find—who wants to play slap-and-tickle with a snarling rottweiler? A lot of us carry similar mechanisms inside ID cards, to open doors. But these can get lost, forgotten, or stolen and misused. And biometric devices like retinal scanners and fingerprint sensors are intrusive and imperfect. Besides, people have been sticking all sorts of things in their bodies for years—pacemakers to fix broken hearts, silicone to perk up skinny chests, Norplant to prevent third-world countries from becoming fourth-world ones.

Consider the benefits. It would end password PINsanity forever. Sensors would wave chipped consumers through checkout lines and tollbooths. Contractors would build implant-friendly homes and offices with Gatesian gimmicks that could customize temperature, background music, and even images on wall-size flat-screen displays as you move from room to room. It would help sort out newborn babies, Alzheimer's patients, amnesiacs, comatose (or worse) accident victims, and military casualties. In fact, there's an entire paranoid-delusional faction out there that believes the government is already chipping soldiers and prisoners. And kidnap-prone executives are supposedly implanting tiny Lo-Jack devices to track their movements. Internal chips could measure irregular heartbeats and blood-sugar levels in diabetics. Or, as Warwick points out, chips could sense muscular movements so you could play air guitar, type on virtual air keyboards, move invisible mice. And Warwick won't make a lot of new redneck friends with his suggestion that gun buyers first get chipped before their weapons are delivered.

Computers are rapidly evolving into Internet terminals. When your chip goes in, you'll be able to walk up to any terminal in any office and log on instantly. Incoming phone calls and faxes will automatically be routed to wherever you happen to be. Of course, employers could also log your time in the john or at the water cooler. If you don't think you're already being monitored, you're naïve. Your credit cards, telephone bills, supermarket club cards, Internet purchases, and public records like home purchases and car licenses already do a pretty good job. How will they convince people to implant these chips? First, they'll hype the convenience of leaving your keys, credit cards, and money at home. Then they'll automate everything from cash registers to tollbooths so if you're chipped you can zoom through in a digital carpool lane. Me, I'll wait. What about you? Let me know what you think in the talkback below.

**WARNING ! -- Do NOT let anyone, for any reason, inject a chip in your right hand or forehead !**  
**(actual size of this "implantable transponder" is about the size of a grain of rice)**

It's amazing (not really, when you consider the Author) how specific the Bible is regarding the "mark of the beast": Rev.13:16- And he causeth all, both small and great, rich and poor, free and bond, to receive a mark in their right hand, or in their foreheads: -notice it says "in" not "on", this fits perfectly since the chip is injected in the hand or forehead. (I've also heard from various sources about "test" programs being done with a chip being injected in the right hands of people)

- Rev.13:17,18 goes on to say - And that no man might buy or sell, save he that had the mark, or the name of the beast, or the number of his name. Here is wisdom. Let him that hath understanding count the number of the beast: for it is the number of a man; and his number is Six hundred threescore and six. (666)

Here is some more information I found: "Right now, there is a computer chip the size of a grain of rice. (1/4 inch long) This computer chip can carry all information on any individual and is self charging. It is charged by the bodies heat, and after planners spent 1.5 million of your tax dollars, they found out that the best places to put this chip would be in the right hand or if that is missing, in the forehead. This chip will be interjected in the hand or forehead in the same way as a shot. There will be 18 digits, your zip code, plus the extra four digits after the dash and your social security number, burned on the chip. These 18 digits will be grouped in three groups of six numbers. (000000 000000 000000) Dr. Sanders, one of the engineers of this chip (#BT952000--called Emergency Intrusive Identification Locator) commented, "I believe this to be the "Mark of the Beast". Dr. Sanders spends his time traveling and warning people about the coming "New World Order" and the Mark of the Beast."

If you have noticed, they have been gradually getting society used to the idea of a cashless system, first checks, then credit cards, then debit cards, then smart cards, finally they'll go public with the "implantable transponder" (or similiar device), and if it wasn't for the evil intent behind it, it would seem to the human mind to be a good system, as they'll probably say that with implantable chips you'll no longer have to worry about your cards being lost, stolen, or forgotten, and that without any cash to be robbed of you'll be a much less desirable target of crime, and since all

financial transactions will have a computer record, all other types of crime will be more difficult also, but because of the evil behind the "mark" as shown in the Bible's clear warning, it is to be absolutely avoided if you truly value your soul.

They may also use the excuse of a (planned) "world financial crisis" that in order to save the world economy we have to go to a cashless system, however they try to convince people, they'll make it seem like it's for the good of humanity. Also, you may have noticed how the number of the beast (666) is being seen more and more, sometimes openly, and sometimes disguised in different ways, it is just another indication of how close we are to the fulfillment of the book of Revelation. Do NOT let anyone, for any reason, inject a chip in your right hand or forehead, because here is what the Bible says in Rev. 14:9-11

**And the third angel followed them, saying with a loud voice, if any man worship the beast and his image, and receive his mark in his forehead, or in his hand, The same shall drink of the wine of the wrath of God, which is poured out without mixture into the cup of his indignation, and he shall be tormented with fire and brimstone in the presence of the holy angels, and in the presence of the Lamb: And the smoke of their torment ascendeth up for ever and ever; and they have no rest day nor night, who worship the beast and his image, and whosoever receiveth the mark of his name.**

Sometimes you'll hear some people put off salvation and say they'll just refuse the "mark" when it comes, but because they didn't love God's truth enough to obey it when they had a chance, they probably won't have the desire to refuse the mark when it comes, and will be deceived into receiving it. ....Read: II Thess. 2:10-12

Please don't take any chances with your eternal destination, click on the above link and MAKE SURE you have true salvation, there is more to it than just believing in God, once you truly experience real salvation you will have no doubt it is really the truth !

Below are some links to the "EndTime" web site, it is an excellent Bible prophecy site I learned about and wanted to share with others, they publish an informative Bible prophecy magazine which relates world news to prophecy fulfillment, and also have some very good Bible prophecy videos, tapes and literature, they will send anyone a free, no obligation sample issue of their magazine, and they also have a world-wide daily (Mon.-Fri.) radio broadcast where listeners can call in live with their questions and comments.

#### THE SKINCODE

If you haven't heard the latest about the 666 system, let me touch a bit upon it now in order to satisfy you that the time *is* at hand. I got hold of a cassette tape in May, 1995, upon which the speaker was a Christian engineer. Along with some scientists, he had been involved extensively in the creation of a high-tech microchip so minute that it could pass through a hypodermic needle. The chip was being developed for transplantation into the skin of animals, but has an ultimate application in the skin of humans. The main problem, he said, was in supplying it with electrical power because of the difficulty of including a battery in an item so small. After much research and experimentation, a team discovered how the microchip could be powered without a battery, by using the electricity formed as a bi-product of a process called *temperature exchange*, so long as the chip was placed in a medium that continually lost and/or drew sufficient heat. The production of an electric current through temperature exchange is nothing novel; the Russians applied the process in World War II to run radios by heating the ends of a metal wire with a basic flame. What *was* novel about the ultra-modern achievement, and very relevant to our discussion, was that the medium which was the focus of the experiments, the skin, produced its own electrical current which could be applied successfully to the microchip.

According to this Christian engineer, the investigators he worked with sought for the best temperature-exchange location on the body, and they found that the two most efficient places were on the forehead and on the back of the hand! Need I say more? (For anyone new to this topic, these are the very two places on the body which the Bible says the mark of the beast will be applied.) The reason that the forehead and the back of the hand are the best choices is obvious. These locations are thin-skinned, permitting the blood vessels to come nearest to the outer atmosphere, where heat from the blood is lost most efficiently. Furthermore, they are two places where clothing does not usually interfere with heat transfer out of the body.

So you see, not only is the ability to install commercial numbers in our hands and foreheads current technology, but the desire to do just that has been the scheme of our superiors for some time now. Why else have they extended themselves seeking a way to power microchips in human skin if the purpose is not to implant them in it some day soon? That these sorts of chips are already implanted in animals is already common knowledge. And while stores are already using a purchasing system which engages electronic deduction, we should accept the fact that we are now at the dark threshold of the anti-Christ's skincode system. Although the electronic transfer of money is currently based on numbers in plastic cards, you can see that the next logical step is to place the numbers in hands, or, if some have no hands, on their foreheads.

It is a well-known fact that the wiring systems which connect the computers of all large corporations to the banks are already in place. Any small business can connect immediately by purchasing the proper, inexpensive computer hardware. There is no other major step needed in the hardware department to incorporate the skincode system. Consider what Ralph Nader, a man who attempted to be President not long ago, said: "Is there a number or mark planned for the hand or forehead in a new cashless society? Yes, and I have seen the machines that are now ready to put it into operation." The next big step will be in the marketing department. That will be initiated by the anti-Christ kingdom through the political drive of the False Prophet.

#### THE SYSTEM'S ALLIANCE WITH EVIL

Eventually, a certain man will arise, whose arrogance and deceitfulness will be great, and through a set of circumstances driven by God, he will achieve great power. He will not appear initially in the US, or Canada, or anywhere in the western world. His military forces will first prosper in the Middle East, and from there he will attack

and desecrate Israel (abomination of desolation). Though on his own he will be a rather small power ("little horn"), the False Prophet will make him great in the eyes of the West so that the entire globe accepts him as somebody significant. It is the False Prophet that sets up and promotes the "666" system, in the anti-Christ's name; it is the False Prophet that does great signs in the sky to promote the image or status of the anti-Christ for the sake of promoting the skincode; and it is the False Prophet that causes all peoples to highly fear ("worship") him for the same purpose. Without the False Prophet's political strings, the skin-based system of doing business would not be uniquely associated with this blasphemous, anti-Semitic, anti-Christian, boor of a man the Bible calls "the beast," who, if left to himself, would never find such fame among the world's people.

At the time that the anti-Christ is thus raised to prominence in the world, most of the western peoples will absorb the False Prophet's message in the way they fall prey to most fervent advertising, even as we are now falling prey to the smart cards through cleverly-designed ads, and the lesser nations will likely follow along without a peep. Through the False Prophet's appeals, while he speaks deceptively "as a dragon" (Rev. 13: 11), the people will tolerate the anti-Christ and accept the skincode in his acclaim. For this very reason alone, regardless of how many advantages the system might have in eradicating crime and time (not to mention bank employees), we who want to be eternally associated with Jesus are warned not to partake of that skin-based system.

Whether or not the tiny microchip described here will ever be part of the skincode, or whether it will be powered by electricity in the skin, we can not say with full certainty. But one thing which is known to us concerns the apparent bent of the modern banks to use the right hand or forehead, *in direct opposition to the Bible*, as the location on the body. According to a 1973 issue of *Senior Scholastics*, there had been plans (as long ago as that) amid the "financial circles" to implant a number in the skin using a quick and painless shot of invisible ultra-violet laser light. And, said the article, "people would receive a numbered tattoo in their wrist or forehead." While the tattooed number seems to have given way to the microchip system, the location of the right hand or forehead is still the location of choice, suggesting to me that Revelation 13 is somewhat of a self-fulfilling prophecy as the banks try to fulfill it *deliberately*. Why deliberately? Have you never heard of Masonry and the Illuminati (very wealthy Satanists) who are in control of this world's god (i.e. money)?

The skincode is almost upon us! We are hearing this from all angles and from many different writers, while the evidence of a 666 is on the product labels of most everything we now buy. An interesting point that tends to support a microchip as the basis of the skincode system concerns a question posed to a physician by the Christian engineer who worked on its development: "What if the concentration of lithium in the microchip breaks down, or what if there is a blowstruck (microchip malfunction.)? The reply from the atheist doctor was: "it will cause a grievous sore."

Revelation 16:2 reads: "and there came a bad and evil sore on the men having the mark of the beast..." Notice that, while English versions may use "sores," the Greek text uses the singular, "sore." Being singular does suggest very much that it will occur in the location of the skin into which the microchip is applied.

Another interesting insight is that the Greek word for "mark" (charagma) in Revelation 13 means "etching" or "scratch," which comes from the Greek verb, "charax," meaning, "to sharpen to a point." Certainly, these terms do bring to mind the syringes now being used to implant chips in animals and prisoners. While syringes don't exactly make *scratches or etchings in the skin*, they do pierce skin, and this is the idea behind "charagma." Of course, conventional tattoos are applied by etching the skin. And marks made by ultra-violet laser would also be, though on a smaller scale, an etching of the skin.

### **THE INCORPORATION OF 666**

According to the book of Revelation (13:17-18), the numbers 666 implanted into the skin will have the peculiarity of somehow reflecting the anti-Christ's name. This very numeric triplet is now being used in the Universal Product Code, or UPC (the black sets of bar lines on the labels of store merchandise everywhere), for purposes that the general public does not know. Indeed, the bars representing the three sixes are not openly revealed by the UPC, though *all* other bars are clearly identified with digits directly underneath them.

Of the total 30 lines, or bars, in the UPC, each digit is represented by two bars so that the totality of the bars represent 15 digits. 24 of 30 bars representing 12 of 15 digits are openly identified with common digits placed directly under them. But 6 bars representing 3 digits are not identified! Each of these 3 digits is a 6, and they are left concealed for a reason, since they represent a 666. Surely, the government officials in charge of the code's engineering must have known that we Christians oppose the inclusion of three sixes in a commercial system on very strong religious grounds. Christian writers have been warning about a modern 666 commercial system for decades, and yet, the triplet has been included in the UPC's structure regardless. Indeed, regardless of the disharmony that will in due course ensue because of our rejection of the system and refusal to cooperate with it, they are going ahead with it anyway. What's more, they wish to go further and actually use the triplet in a skincode! Are they laughing behind our backs? Do they think they are going to play a practical joke on us? What complete arrogance! We Christians are completely insignificant to these leaders. But the "joke" will be on them, and none of them will be laughing.

Since the Bible suggests that the anti-Christ's name will somehow assume 666, the wonder is that the triplet is already out on the Product Code before the anti-Christ has been revealed to the world. This is puzzling. Are we to believe the False Prophet has been involved in the UPC's creation already, and has he been working in the wings in league with the anti-Christ? I don't think so. Alternatively, we might say this is all a God-directed "coincidence." Perhaps. But I think it would be admissible to suggest that the people who are bringing us the high-tech commercial systems are Satanists hoping to bring about the Biblical 666 system as a joke on Christians, all the while assuming that the Biblical Revelation is untrue. To put it another way, God has created a self-fulfilling number just by making it known to his enemies.

The positive side is that the commercial engineers have not been successful in concealing the triplet from us. Indeed, it is quite fortunate that a 666 has been found in the Universal Product Code because it warns us of the nearness of the fully developed skincode system. I learned of this UPC triplet many years ago, but recently, I viewed a video tape (produced in 1994) on the subject that must surely be getting around to Christian circles far and wide. This tape informed me that over 95% of all products sold to us have the UPC with its 666 on their packaging? Take a look in your cupboards or pantry, and you will see it on just about every can and package. Take special notice of the code with 30 lines, the one with two thin lines on the left side, two thin lines on the right side, and the same two thin lines coming right down the middle. Each pair of thin lines represents a 6. If you want to prove this for yourself, find any digit, 6, on the right half of the code (not on the left half). Above that 6 there will be the same two thin lines. Any 6 on the left half of the code is not represented by these two thin lines, however, because the two halves of the UPC are furnished with bars from two distinct bar sets. The bars on one bar set are always used on one half, and the bars on the other bar set are always used on the other half. It is bar set used on the right half that uses two thin lines placed closely together to represent a digit, 6.

The 5-digit number on the left half represents the manufacturer of the product. All Coca-Cola products, for example, will have the same 5-digit number on the left half. The 5-digit number on the right half represents retail information (e.g.- price). Along with the two 5-digit numbers, you will usually see two 1-digit numbers, one on each side of the UPC. Also on each side of the UPC, you will notice 4 longer lines. The two longer lines positioned 3rd and 4th from the extreme left represent the single-digit number shown somewhere to the very left of the UPC. Likewise, the 3rd and 4th longer lines in from the extreme right represent the single-digit number placed somewhere near the extreme right of the UPC.

The two longer bars on the very outer left side and the two longer bars on the very outer right side are, as I said, both 6s. The same two longer bars can always be found coming right down the center of the UPC, and supplies the third 6. Since these bars are not assigned digits under them like all the other bars, and also because they appear with every UPC, they appear to serve no other purpose but to act as boundary lines. However, the truth is, they provide a 666 on every UPC, regardless what the manufacturer number is or what digits the retail information may be represented by. This gives the triplet a more far-reaching purpose than to merely act as boundaries for scanner-related purposes. It acts as the forerunner to the 666 of the skincode. How the triplet might be used in the microchip must, at this time, be known only by those who are privy to the system. Someone in-the-know is bound to spill the beans before long, however, unless someone on our side makes the discovery first.

The Bible goes out of its way to make sure we understand that it is the receiving of the mark *on the hand and forehead* that is damning, and not the use of the UPC. It is when the False Prophet and the anti-Christ become involved with the economy and with the skincode that we should have nothing more to do with purchasing. The system becomes evil by association with anti-Christ.

#### **WHAT'S NEW?**

Guelph, Ontario, has been chosen to be the location for the first community-based pilot project, in all of North America, for the *cashless society* card, also called the Smart Card. It began late in 1996 and has been, according to those who launched it, a complete success wherein over 93% of the city's merchants partook in it. There has only been one program like this one, in London, England, which I understand has served for the pilot for all of Europe, though there was a similar effort in Kingston, Ontario as well. Indeed, the US is well behind Europe and Canada in utilizing this technology, though, at present (June, 1997), there are pilots in San Francisco and Jacksonville, Florida. The one in Florida involves AT&T, while the one in San Francisco involved 700 employees of Wells Fargo Bank. Clinton is pushing legislation for smart cards right now so that this sentence may be old news by the time you read it. The people who are marketing the cards tell us there will be 3.5 BILLION cards by 2,000, which, in my mind, amounts to a global cashless society within the first few years of the millennium; if you don't believe this estimate, see <http://www.smartcard.com>

The Smart Card is a replacement of the magnetic stripe cards, having a microchip instead wherein the Visa and other similar card numbers can be incorporated (no Smart Card, no Visa). While the virtues of the system are going to be stressed to the public, we must not lose sight of the fact that it is based on greed. The people who are bringing it to fruition are the world's banks in conjunction with Mastercard, people who already have an over-abundance of our money, but who see opportunity through this card to have more.

A person can run the card through the bank machine to load it with "cash," after which it is run through a store scanner to unload it. The microchip's built-in computer keeps track of how much is unloaded at every purchase point. When the amount of "money" runs low, the card can be reloaded at a bank machine. Some of the cards used in the pilots have a maximum capacity of \$100, but that would change very quickly to much more. Look for these cards to replace cash and checks immediately!

The company which is in firm control of this technology is called Mondex, 51% of which is owned by Mastercard. There are at least 20 shareholders having a slice of the other 49%--all banks, except AT&T. Fully ten shareholders are banks in Australasia. You will hear of Mondex often in the future, as it is well on its way to being the leading provider *globally* of this monetary system. Consider statements like the following made in a Mondex press release, dated May 22, 1997: With the addition of Bank of Montreal, Canada Trust, Le Mouvement des caisses Desjardins, National Bank of Canada, and TD Bank to Mondex Canada's existing participants -- CIBC, Royal Bank, Credit Union Central of Canada and Hong Kong Bank of Canada -- Mondex would represent close to 90 per cent of the deposit-taking financial institutions market in Canada, at this time. In addition, Bell Canada is a marketing participant in the Mondex implementation in Guelph, Ontario.

With 90% of all banks participating without the bat of an eyelash in Canada, you know the banks of Europe and the United States will follow along just as strongly and, as concerns us Christians, just as quickly. They obviously have a financial incentive in participating with Mastercard! They are planning to gouge the people; so don't think they are going to be inclined to give us back all their savings in paperwork costs. Here are some bits and bites to chew over from the horse's (Mondex) own mouth: Mondex is a payment smart card which brings together the advantages of paying by cash with the convenience of paying by card. The system is being introduced by major financial institutions in conjunction with retailers and telecommunications companies around the world. Mondex can be used in place of cash to make payments instantly and conveniently at participating merchants or by phone. In addition, Mondex is unique in that its technology platform allows for person-to-person transfer of electronic cash that is not reported to a central computer system.

Be shocked, Christian, for you can see that, after playing Mr. Nice Guys to get the cards established "around the world," the banks will force us to use them by not giving us a viable, traditional alternative. The bit about Mondex payments being made "instantly and conveniently" spells, NO PAPERWORK-MONEY SAVED, and the bite comes down when, after the cards are accepted, the mandatory skincode is enforced. The fact that huge corporations want a cashless society makes it a sure bet that it will be established sooner rather than later. That over 93% of all the merchants in the first pilot city have accepted the use of this system speaks loudly about the speed with which it will be set up in all the world. It's now only a matter of selling the idea to the people, and with Christian churches helpless to do anything about it, and with God allowing it all to take place to fulfill prophecy, there's not going to be a major obstacle. Indeed, there are 10,000 card holders in Guelph right now where the population of the city is only 100,000. While that represents 10% of the population, it has got to be more like 30-40% of all families!

The vital question concerns whether or not the skincode will be set up already (by others) when the anti-Christ initially takes charge for 1,260 days. Will he merely need to slip in "overnight" and represent what Mondex establishes without giving us much opportunity to prepare provisions? That is the picture I am getting. It is very significant that Mondex is cutting the global path for the skincode so that False Prophet/Anti-Christ just needs to enter the scene at the appointed time to represent it. Consider the global (beastly) character of Mondex as revealed in the following quotes from its press release, keeping in mind that these people already know they will afterwards convert to a microchip in the skin: Mondex Canada is part of Mondex International Limited, an independent global payments company owned by MasterCard International and 23 other major companies in North America, Europe, southeast Asia, Australia, and New Zealand. [Michael Keegan CEO of Mondex International, said:] "Canada's financial services industry has given Mondex a tremendous vote of confidence and ensured that it will be the first electronic cash scheme to gain wide acceptance across the country. This announcement is typical of Mondex's rapid progress around the world and emphasises the fact that we are now a global reality, with Mondex franchises sold in over 20 countries and new franchises to be announced in the coming months."

[Allan J. McGale, Vice President, Stored Value Cards, Royal Bank, said:] "Today's announcement concerning Bank of Montreal, Canada Trust, Le Mouvement des caisses Desjardins, National Bank of Canada and TD Bank is a significant milestone for Mondex Canada as well as for our colleagues in other countries around the world. With representation by most of Canada's leading financial institutions, and the participation in the Guelph launch of the country's largest telecommunications company, we now have an even stronger foundation for establishing Mondex as the pre-eminent global electronic cash system."

While I can only make theories as to the relationship between Mondex and the False Prophet/Anti-Christ at this time, one thing is becoming more and more apparent. That is, according to a fellow post-tribber, Mondex has some Masonic stripes. He writes: "In the last two weeks Mondex commercials have been airing on Canadian television in promotion of it's MARC. The spots show the Mondex name and 3 ring Masonic logo." I don't think it is a coincidence that the company which manufactures the smart cards (Gemplus) for Mondex have decided to use the title, Multi-tech Automated Reader Card, so that it spells MARC. Rather, it suggests they are out to make the mark of the beast happen as a joke on us.

Mondex supposedly stands for "monetary dexterity." Now, while "dexterity" means "easy handling," the root of the word is "dexter," which means "right hand." Therefore, MONDEX could very well mean "money in the right hand." Of course, the "monde" in Mondex may also be significant in that it means "world." And, wouldn't you know it, you can get a "demon X" out of Mondex just by tagging the "de" to the front of "mon." And, wouldn't you know it some more, that "SET MARK" is the registered name of Mondex's new companion to the smart cards (to be used for internet purchases), where "Set" is the Egyptian version of Satan (or Satan's brother), so that SET MARK could mean SATAN's MARK. You'll hear more about SET MARK soon, or go to the Mastercard site: (<http://www.mastercard.com/press/970718a.html>) and read all about it (but don't expect them to come out and admit the Satanic/Masonic undertones inherent in their special titles). You'll be hearing a lot more about Mondex USA from here on in, especially after the Y2K scare has passed, when the banks will feel relief enough to surge in carrying out their cashless-society plans.

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### **Signs of the Times – Technology**

**The book of Revelation reveals that the antichrist will be able to track and control all financial transactions and that NO MAN will be able to buy or sell anything unless he has the mark.**

He also forced everyone, small and great, rich and poor, free and slave, to receive a mark of his right hand or on his forehead, so that no one could buy or sell unless he had the mark, which is the name of the beast or the number of his name. - Revelation 13:16-17

Not until recent times did people understand how this prophecy could possibly come to pass. There was simply no way that anyone could control the buying and selling activities on such a large scale. Certainly it will be a monumental task to keep track of all men, and their financial transactions, all across the globe. Modern technology has created a new electronic world without borders. With modern computer technology, satellites, and devices like the Global Positioning System device which can track anyone within 3 feet anywhere in the world, such a feat seems more plausible. And new developments in biometric and smart card technology make such a feat seem more plausible as well. Indeed, Antichrist's world government is not only believable but seems just around the corner. No one knows how the mark will be imprinted on the hand or the forehead and I am not saying everything described here will necessarily become the mark of the beast. Given rapidly evolving modern technology, if the Lord tarries a bit longer there may be some development that would fit the bill even more closely. However, there are some good candidates and numerous ways this could be accomplished today.

### **Subcutaneous Implant**

The technology now exists and has been successfully tested to allow an identification device of some type, including a tiny microchip, to be implanted under the skin of the hand. Programmable subcutaneous visible implants could contain biosensors to monitor temperature and blood pressure, and display these readings--clearly a medical advancement. But the devices could have a more serious purpose. They could be used for electronic tagging. Whenever anyone wanted to buy or sell something, he could be required to wave his hand over a scanning device that would read

the chip, identify the buyer or seller, and validate or invalidate the sale.

Interval Research (Palo Alto) has patented a "programmable tattoo." The biologically inert subcutaneous implant is constructed of a flexible material so as to conform to the skin's surface. The small liquid-crystal display can be inserted just beneath the skin (e.g., in place of a wrist watch). Because human skin is partially transparent, the display is clearly visible. The implant also includes a receiver for receiving programming information from a user, and a display for displaying the programming information through the skin. The display is connected to a control chip and power comes from a small battery. Both of these are implanted beneath the skin. Implanting is an outpatient operation and the battery can be recharged inductively, by holding the wrist near a charger. We have already demonstrated our willingness to accept devices to electronically tag or track individuals. It has become quite commonplace, for example, for law enforcement agencies to require individuals to wear electronic bracelets in order to monitor their activities.

### **Digital Angel**

The Digital Angel™ technology incorporates a microchip that can be worn close to the body and includes biosensors that can measure the biological parameters of the body and send the information via wireless device to a ground station or computer. It will also have an antenna that can receive signals from GPS satellites, thus pinpointing the location of the wearer. According to the [Digital Angel™ web site](#), "While a number of other tracking and monitoring technologies have been patented and marketed in the past, they are all unsuitable for the widespread tracking, recovery and identification of people due to a variety of limitations, including unwieldy size, maintenance requirements, insufficient or inconvenient power-supply and activation difficulties. For the first time in the history of

location and monitoring technology, Digital Angel™ overcomes these limitations.

Some of its potential uses, according to their web site includes: monitor patients by doctors, commodities supply chain management, locating people such as small children and the elderly, tracking parolees, people under house arrest, and individuals in witness protection programs, trace valuable items such as art pieces or computer equipment. Of particular interest is its application as an important security measure. It can carry personal identification information and transmit this information via wireless communication with personal computers.

### **Thermograms**

Thermogram's are a type of imagery that translates a person's heat-emitting facial features into an infrared image. Registering the various heat peaks and valleys in surface, the thermogram looks like a colorful, face-shaped topographic map. Like a fingerprint, each person's face creates a unique thermal pattern. Captured by a special infrared camera, the image can be digitized and stored in a computer. Later, the person is rephotographed and the new thermal image is electronically compared with the old. ["Smile, You're on Thermogram," ID Systems, August 1995.

### **Iriscons**

Iriscan technology is already being introduced in financial organizations here and abroad that require nonintrusive, noncontact, and accurate electronic identification. [Iriscan](#) technology identifies people by analyzing the unique pattern in the iris of the human eye. The iris is the colored ring of tissue that surrounds the pupil of the eye and is a complex combination of patterns that can be recorded and stored by the computer. The iris-recognition product captures a photographic image of the iris, analyzes its unique visual structure, and then compares it to previously stored Iriscodes

for authentication of identity. ["Security for Your Eyes Only," Byte, May 1998.] Imagine this technology being in place providing access control to facilities and point-of-sale control. It's already in place at some bank ATMs.

### **Bar-Codes**

Bar codes are everywhere: they are as familiar as a trip to buy groceries. Now part of almost every package that crosses the supermarket, drugstore, and retail counter, bar codes stand poised to move into many other facets of society. In their quest for better device identification, the U.S. Department of Defense and NASA are testing coding systems that pack in much more information than current bar codes. These new "two-dimensional" bar codes can squeeze in enough information to fit the Gettysburg Address into a two-inch square. "It's a technology that will open up a whole range of applications," says Richard Bravman, vice president of marketing for Symbol Technologies, Inc., in Bohemia, N.Y., one firm with a new bar code system.

This next generation of identification codes needs no centralized database. Instead, the symbol itself can contain all the necessary information, says Bravman. Thus these codes can help companies and the military keep better track of products that "cross organizational boundaries," he adds. When the device, substance or person travels to a new warehouse, store, hospital or location, all its data go along, in compact form, accessible to anyone with a machine that can read the symbol.

"It's a portable data file," says Doug Mohr, mechanical engineer in program development at the Idaho National Engineering Laboratory in Idaho Falls, who is evaluating these technologies for use by the federal government. At the Wilford Hall U.S. Air Force Medical Center in San Antonio, Tex., hospital administrators expect that within a year patients there will carry ID cards with medical histories and personal data encoded on the back. The hospital had evaluated other types of codes, including current bar codes, but discovered with the two-dimensional format that "we didn't need to tie up our database memory," says Lt. Col. Frank J. Criddle, an emergency room physician at Wilford Hall. Miniaturized, some of these new codes can identify electronic components, jewelry or even medical devices. "It represents a giant step in component traceability," says Robert S. Anselmo, president of Veritec, Inc., in Chatsworth, Calif. He boasts that his company's symbols could fit on a grain of rice. Others say they can make their codes invisible

to the eye but still readable to a scanner.

### **Apocalyptic Hope**

Today, almost everyone is shopping electronically through charge cards, Debit cards, (instantaneous withdrawal), and through computerized commerce (EFT... electronic funds transfer). All of these accounts are numbered.

**Note:** "You only have power over people as long as you don't take everything away from them. But when you've robbed a man of everything, he's no longer in your power---- he's free again." Aleksander Solzhenitsyn

## **Plans for vast DNA library to fight crime**

**By Andrew Sparrow, Political Correspondent**

**ISSUE 1527 Saturday 31 July 1999**

THE police would be given extensive new powers to use DNA and fingerprint evidence under plans announced yesterday by Jack Straw. The Home Secretary said that Britain was "on the threshold of some of the most exciting changes in police technology in decades" as he published proposals to change the law on scientific evidence. The police welcomed the plans, which include allowing them to keep thousands of DNA samples given by innocent people during investigations. But Liberty, the civil rights group, complained that the consultation document illustrated how rights of suspects were gradually being eroded.

The DNA plan was one of the most radical in a list of ideas designed to strengthen police powers. Currently, if an individual provides a DNA sample during a mass screening following a major crime, then it has to be destroyed once that person has been eliminated as a suspect. So far there have been 120 mass screenings, gathering an average of 4,000 samples at a cost of £40 each - a total of more than 400,000 samples. Mr Straw's plans would allow the police to keep DNA profiles for years, but individuals would still have to agree. He said samples would only be stored with the donor's consent and would be kept on a separate database to the National DNA Database, which contains samples from 600,000 convicted offenders. The police would also be given the right to use electronic scanners to gather fingerprints from suspects, rather than relying on ink pads and paper. This will pave the way for hand-held scanners which will be linked to a national database and enable officers on the street to make an instant identification of arrested suspects.

Mr Straw said the changes were necessary to bring the law up to date with the latest technology. He said: "Twenty-first century police officers will be able to tap into a national fingerprint database capable of comparing over one million fingerprints every second." Changes in the law are necessary because there is some doubt at the moment about the legitimacy of electronically gathered fingerprints, which involve suspects rubbing their fingers over a scanner

instead of using ink and paper. So-called Livescan units installed in police stations are already being piloted and have led to the identification of more than 5,000 suspects. Police hope to extend this to officers on patrol with units called Live-ID, hand-held devices.

The use of footprints as evidence will be put on the same basis as fingerprints under the Home Office plans. In recognition of the international nature of crime, Mr Straw also wants to allow the police to use DNA profiles and fingerprints gathered in England and Wales to be checked against records either held by foreign police forces or other bodies, such as the Ministry of Defence, armed forces or Interpol. Chief Supt Peter Gammon, president of the Police Superintendents' Association of England and Wales, said yesterday that the organisation had long campaigned to be able to keep DNA samples and for the law to keep up with changes.

He said: "Not only is that common sense, but also sound business sense if police resources are to be used more effectively to combat crime." But John Wadham, director of Liberty, warned: "The proposals to allow police officers to take fingerprints on the streets will lead to more innocent people being subject to unnecessary and intrusive harassment. He said: "In practice this is likely to have a disproportionate effect on black people."

[28 July 1999: Automatic DNA tests help police fight crime](#)

[26 July 1999: Sex cases to re-open after DNA breakthrough](#)

[6 May 1998: Call for DNA database of population](#)

### **DNA tests for all will cut crime, says pioneer**

**ISSUE 2096 Monday 19 February 2001**

THE scientist who discovered genetic fingerprinting wants the entire population of Britain to be DNA tested to try to combat serious crime. Professor Sir Alec Jeffreys, who devised the system to identify criminals from the unique characteristics of their genes, said that he had changed his mind about the human rights implications of a [universal DNA database](#). Featured in the BBC's Midlands Report documentary yesterday, he said: "When this idea was first put forward about 10 years ago I had considerable concerns over civil liberties issues. On reflection, I'm now actually in favour of this." Professor Jeffreys, 51, of Leicester University, who [was knighted for his work on DNA fingerprinting](#), said: "The technology is there to make a DNA database for every single one of the 60 million citizens who make up the UK. I think the potential of this database to prosecute serious crime . . . is very substantial. This is a proposal that requires careful thought."

[20 January 2001: Police to get new powers on DNA testing](#)

[10 December 2000: Roadside DNA tests planned](#)

[5 November 2000: DNA test advances leave 800 killers fearing knock at door](#)

[1 September 2000: £109m to expand DNA database](#)

[30 April 2000: Crime suspects face DNA tests](#)

[31 July 1999: Plans for vast DNA library to fight crime](#)

[25 November 1996: Einstein award for pioneer in DNA detection](#)

[11 April 1995: Blueprint to catch a killer](#)

### **EU plans to issue 'identity number' for every citizen**

**By Stephen Castle in Brussels and Andrew Grice**

**5 February 2001**

Ambitious plans to help European Union citizens move more freely between countries during the course of their working lives may include giving every person an individual "EU social security number". A task force to be set up at next month's summit of European leaders in Stockholm is to study the proposal as part of a drive to sweep away barriers stopping people from moving easily between member states. Senior EU officials are pressing for a feasibility study into a common social security coding system for Europe. This would enable entitlements to benefits and insurance contributions to be "portable" for each person, regardless of which country they might live in.

Officials stressed that the move would not be designed to win new powers for the EU, and that the levels of state benefits and insurance contributions would continue to be fixed by national governments. But a more unified system would enable those who pay social security contributions while working in another European country to claim benefits when they returned home. If adopted, the controversial plan would bring American-style mobility to the European employment market. In America, people readily move from state to state to look for jobs, but only a tiny minority of EU workers are prepared to migrate to another country for work. In the EU, 0.5 per cent of the working population moves abroad each year compared with 2 to 3 per cent of Americans who move states to find work.

Officials in Brussels acknowledge that Europeans encounter more problems in changing countries, including language difficulties. However, they point out that while states in America have different benefit rules, every American has a nine-digit social security number, which records contributions throughout the country. The British Government, which wants to encourage freer movement of workers within the EU, is keeping an open mind about the proposal until it sees the details. Ministers would oppose any move towards common EU benefit levels but do not believe Brussels is trying to achieve this. However, an EU-wide coding system would be politically sensitive, fuelling Tory claims that Britain was being sucked into an EU superstate.

A spokesman for Anna Diamantopoulou, the social affairs commissioner, said the remit of the task force remained under discussion but added: "It will look at the A to Z of legal, administrative and practical problems for people living and working in different countries which obstruct mobility, with a view to removing these obstacles by 2005." Frits

Bolkestein, the European commissioner responsible for the internal market, will discuss plans to improve labour mobility with Gordon Brown, the Chancellor, today. In a speech in London, Mr Bolkestein will welcome the British Government's support for moves to create an EU single market but accuse ministers of failing to match their words with actions. The European Commission wants the Stockholm summit to look at other issues such as the mutual recognition of professional qualifications throughout the EU, another barrier to free movement of labour.

**Rumor Mill News Read Only Forum**  
**DIGITAL ANGEL LAB OPENING IN CALIFORNIA**

**Posted By: Data\_Junkie**

**Date: Sunday, 28 January 2001, 7:44 p.m.**

New Applied Digital's E-business Practice Headquarters in Riverside, Calif. Will House Digital Angel Delivery System, Data Management Center and Software Development Lab. PALM BEACH, Fla.--(BUSINESS WIRE)--Jan. 26, 2001-- Life-saving Digital Angel(TM) location and bio-sensor data will be accessible via multiple channels, including Web browsers, Personal Digital Devices (PDAs), WAP-enabled cell phones and telephony contact centers. Local government, university and business leaders will join top Applied Digital executives at opening ceremonies on February 2, 2001.

Applied Digital Solutions, Inc. (NASDAQ:ADSX - news), a leading, single-source provider of e-business solutions, today announced that February 2, 2001, has been slated for the grand opening of its new, state-of-the-art eBusiness applications center and software development lab, located in the University Research Park area of the Riverside Regional Technology Park in Southern California. A number of local government and business officials will attend the opening, along with key members of the University's administration and faculty. Following the opening ceremonies, senior executives of Applied Digital Solutions will host a special tour of the new facilities.

Commenting on the announcement, Applied Digital's President and Chief Operating Officer, Mercedes Walton, said: "The opening of this new facility is extremely exciting. Riverside County, the City of Riverside and the University of California, Riverside, have created the ultimate location for business development and technological innovation in the new Technology Park. This is an ideal location for developing new eBusiness applications as well as deploying mission critical support for many of Applied Digital's innovative projects, including our breakthrough Digital Angel technology and supporting wireless communications data delivery system. This grand opening will give us the opportunity to demonstrate how Digital Angel's life-saving location and bio-sensor data can be accessed by way of various platforms, including Web browsers, PDAs, WAP-enabled cell phones and even telephone contact centers."

Applied Digital selected the Technology Park in Riverside because of its prime location and distinctive technological advantages. In the heart of what has become a major center for software technology, the new location links Applied Digital with Riverside City and County resources and the University of California Riverside's prestigious academic and research programs. Moreover, Technology Park offers the unique amenities required by technology-based companies such as Applied Digital Solutions.

The Technology Park facilities are now home to Applied Digital's eBusiness Practice (formerly known as Timely Technology Corporation), which provides innovative e-commerce solutions to a broad range of industries including government, mortgage, insurance and retail organizations. It also offers distance learning solutions tailored to the unique needs of businesses and organizations and is committed to promoting e-commerce through community seminars and its ongoing partnership with UCR Extension. Timely Technology Corporation became a subsidiary of Applied Digital Solutions, Inc. in July 2000.

The new applications center and eBusiness software development lab serve a number of critical roles in Applied Digital's current and future business plans: Home to the company's Digital Angel ASP delivery system, as well as its west-coast research and development lab for Digital Angel and other advanced wireless, Internet-related technologies. Hub for a unique, multi-channel web community for marketing and distributing Digital Angel products and services, including a new line of Digital Angel wristband devices and pet-protection applications to be available in the near future. Center for the development of transportation-related Digital Angel applications.

**More About Digital Angel**

In December of 1999, Applied Digital Solutions announced that it had acquired the patent rights to a miniature digital transceiver -- which it has named Digital Angel. Digital Angel represents the first-ever operational combination of advanced sensor technology and Web-enabled wireless telecommunications linked to GPS systems. The company believes this technology will enable it to tap into a multi-billion dollar marketplace with a number of applications that will prove to be extremely popular. Potential applications include: medical and location monitoring for at-risk patients; emergency location of lost or missing children; finding lost or missing household pets; managing livestock and other farm-related animals; pinpointing the location of valuable stolen property; and managing the commodity supply chain.

Digital Angel data is transmitted wirelessly, on a real time basis, to an Internet-integrated ground station and made available on a Web-enabled desktop, laptop or wireless device. The new Technology Park facilities will be the primary application center for the entire Digital Angel Delivery System. A new Digital Angel wristband device will be unveiled at Cyberposium at Harvard Business School on February 10, 2001. For more information about Digital Angel, visit [www.digitalangel.net](http://www.digitalangel.net).

**About Applied Digital Solutions, Inc.**

Applied Digital Solutions is a leading, single-source provider of e-business solutions. The company grew revenues a remarkable 14,315 percent over the past four years. In recognition of its strong growth record, the company has been ranked in the top tier of the fastest growing technology companies in the "Technology Fast 500" listing compiled annually by Deloitte & Touche. With a ranking of 27 in the listing for the year 2000, Applied Digital was ranked in the Top Ten of the Fast 500 in two of the past four years. For more information, visit the company's website at <http://www.adsx.com>.

Statements about the Company's future expectations, including future revenues and earnings, and all other statements in this press release other than historical facts are "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, Section 21E of the Securities Exchange Act of 1934, and as that term is defined in the Private Litigation Reform Act of 1995. The Company intends that such forward-looking statements involve risks and uncertainties and are subject to change at any time, and the Company's actual results could differ materially from expected results. The Company undertakes no obligation to update forward-looking statements to reflect subsequently occurring events or circumstances.

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**DIGITAL ANGEL LAB OPENING IN CALIFORNIA** (views: 748)

Data\_Junkie -- Sunday, 28 January 2001, 7:44 p.m.

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**DIGITAL ANGEL WEDDING ENCRYPTION TECHNOLOGY** (views: 166)

Data\_Junkie -- Sunday, 28 January 2001, 8:00 p.m.

**Rumor Mill News Read Only Forum**

**Selling Harvard On The Mark Of The Beast**

**Posted By: Data\_Junkie**

**Date: Sunday, 28 January 2001, 7:57 p.m.**

**In Response To: [DIGITAL ANGEL LAB OPENING IN CALIFORNIA](#) (Data\_Junkie)**

Monday January 22, 8:02 am Eastern Time. Press Release. **SOURCE:** Harvard Business School

Thirteen High Technology Visionaries to Speak at Cyberposium 2001 at the Harvard Business School Sixth Annual Student-Led Conference Features Over 80 CEOs and Founders and Demonstrates Entrepreneurial Spirit is Strong.

**BOSTON**, Jan. 22 /PRNewswire/ -- The Co-directors of Cyberposium at the Harvard Business School (HBS) today announced that thirteen leaders in high technology will participate in visionary presentations at the sixth annual Cyberposium High Technology Conference, 2001. Visionary presentations will consist of keynote speeches and visionary debates, and explore new economy themes ranging from "getting back to sustainable business models" to "the emerging wireless landscape." Tim Koogle, CEO of Yahoo!, opens the conference, and Jim Barksdale, partner of The Barksdale Group, will lead Saturday's events with opening remarks. The three-day, student-led conference takes place on February 9-11, 2001 on the Harvard Business School Campus.

Cyberposium is the premier high-technology conference uniting nearly two thousand MBA students and academics from around the world, and over 80 CEOs and founders, to interactively explore and share the latest provocative thoughts on technology and business. More than just challenging conventional wisdom, the conference provokes fresh ideas through frank and honest discourse on the issues that are most pressing for business leaders. "This year we are seeing a flight to quality in the technology market, where MBA students are paying much more attention to the sustainability of new economy business models. Cyberposium 2001 reflects this change in attitude," said Cyberposium Co-Chair David Margalit. "The popularity of Cyberposium among the student body and the caliber of corporate participants signal that high technology and entrepreneurship are alive and well. The difference is that this year we are a lot more demanding and a lot more critical of entrepreneurial opportunities that come our way."

This year's Cyberposium has attracted corporate participation from established heavy-hitters like QUALCOMM, Disney and Sun Microsystems, as well as sponsorships from leading Internet start-ups in the wireless, optical networking and bio-technology sectors. In addition, Cyberposium has again attracted top-tier venture capital and consulting firms, who will join this diverse mix of corporations and students in discussion

panels, venture capital feedback sessions, entrepreneurial boot camp modules, the Cyberposium TechShow, and a Career Fair.

The list of participating technology visionaries reads like a "who's who" in the new economy: Tim Koogle, CEO of Yahoo!; Takeshi Natsumo, founder of iMode and executive director of Gateway Business Department; Jim Barksdale, partner at the Barksdale Group; Hank Barry, CEO of Napster; Irwin Jacobs, chairman and CEO of QUALCOMM; Geoffrey Moore, author, founder of the Chasm Group, and partner at Mohr Davidow Ventures; Ben Waldman, vice president, Mobile Devices Division, Microsoft; Bob Howe, chairman and CEO of Scient; Shelby Bonnie, CEO of CNET; Ken Fox, founder of ICG; Ed Zander, president and COO of Sun Microsystems; Paul Deninger, chairman and CEO of Broadview; and Carl Yankowski, CEO of Palm Inc.

### **Is Entrepreneurship Dead?**

"The volatility of the NASDAQ over the last year has not been lost on the classes of 2001 and 2002, and technology continues to rank high among MBA career choices. The state of the market has made for a more serious tone on campus, one that is reflected in this year's Cyberposium conference," said Riad Bsaibes, Cyberposium Co-Chair. "MBA students are never afraid to ask tough questions and Cyberposium provides a forum for students and industry leaders to explore these difficult issues together."

Other participating companies include:

Aether Systems, Akamai, Amazon, AMD, AOL, Agency.com  
BMG Entertainment, Big Chalk, Business 2.0, Boo.com, BCG, Broadview  
DiamondCluster International  
CIENA, Cisco, CNET, Corning, Inc., CBS, Charles River Ventures,  
Centrata  
e\*trade, eBay, Ericsson Inc., EastWest Venture Group,  
Forrester Research, Flooz.com  
Genzyme, Genomics Collaborative, Gizmoz, GiantLoop Networks  
Intel Corp., Intuit, Infospace, Indigo, JDS Uniphase  
Launch.com, Level3, Liberate Technologies, Linkshare  
Microsoft, Motorola, McKinsey, Mohr Davidow Ventures  
Napster, NBCi, Nextel, Nortel Networks, NTT DoCoMo  
Orange, Onex Communications, ONI Systems  
Palm Inc., PMC Sierra  
QUALCOMM  
Realnetworks, Red Herring, Razafoundries  
Scient, Sun Microsystems, Sycamore Networks, SchoolNet  
Universal Music Group, United Devices, Inc.  
Verisign, Viant, Vox2 Inc.  
Wall Street Journal Online, Walt Disney Company, Wink  
Yahoo! Inc., Yankee Group, YadaYada.com

About Cyberposium 2001

Cyberposium 2001 is the premier MBA high tech conference uniting MBA students, academics, and industry leaders to interactively explore and share the latest provocative thoughts on technology and business. Conference highlights include visionary presentations, panel discussions, How-To Sessions, career networking, and the Cyberposium TechShow.

About Cyberposium TechShow 2001

TechShow 2001 will highlight cutting-edge products and technologies that have the potential to make a substantial impact on the way we live and do business. The show's featured themes include the Post-PC Era, the Computer Everywhere, Next Generation Interfaces, Converging Media, and Technology and Health. Exhibitors ranging from IS Robotics (iRobot) and Motorola (digitalDNA) to Applied Digital Solutions, which has selected Cyberposium to debut its new product, Digital Angel -- an innovative GPS and cellular positioning device. The show will take place Saturday, February 10, in the Spangler student Center.

About Cyberposium@Chicago 2001

This year Cyberposium has expanded to include a new venture - Cyberposium@Chicago. This one-day event will run concurrently at the Gleacher Center in Chicago as part of the three-day Cyberposium conference, and is designed to address the specific needs and interests of the Chicago high tech and new media community. Students and alumni from Harvard Business School, Kellogg Graduate School of Management and the University of Chicago Graduate School of Business, and members of the greater Chicago/Midwestern high-tech business community will benefit from the extension of the thought leadership, community, learning and networking from Harvard Business School to Chicago.

The two conferences will be linked via Webcast throughout the weekend. A complete agenda of Cyberposium keynote presentations, panel discussions, networking events and How-To sessions is available at [www.cyberposium.com](http://www.cyberposium.com). In addition, a live broadcast of visionary addresses and select conference panels will occur via the Web at [www.cyberposium.com](http://www.cyberposium.com). The event starts on Friday, February 9th, at 5:30 p.m. EST and runs through Sunday, February 11th, and will take place on the Harvard Business School campus in Boston, MA.

SOURCE: Harvard Business School

[http://biz.yahoo.com/prnews/010122/ma\\_harvard\\_2.html](http://biz.yahoo.com/prnews/010122/ma_harvard_2.html)

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## **Finger Food**

### **Fingerprint Scans Replace Lunch Money in Pennsylvania**

*By Sascha Segan*

Jan. 18 — Students in Pennsylvania are giving the lunch lady the finger. A new system which uses fingerprint scanners to let kids pay for school lunches is getting raves from students and school administrators, but is making privacy advocates nervous. The scanners make stealable lunch money, lose-able swipe cards and the stigma of being known as the free-lunch kid things of the past, says Walter Curfman, superintendent of the Tussey Mountain School District in western Pennsylvania. "You always have your finger with you, unless you cut it off," he said.

But Andrew Shen of the Electronic Privacy Information Center worries about how well the information will be protected from being spread around throughout the government. "Once you have a collection of fingerprints starting from such an early age, I can imagine this being used for other purposes in the future" such as law enforcement, he said.

#### **Popular System**

The system from Altoona, Penn.-based Food Service Solutions is currently being piloted in middle and high schools at Tussey Mountain and neighboring Penn Cambria School District in rural western Pennsylvania, and Lower Merion School District in suburban Philadelphia. So far, it's unique to the Keystone state, FSS president Mitch Johns said. It works on a debit account system — parents put money in, and students order food. When the account runs low, a letter goes out to the parents. Parents can also restrict students' shopping "a la carte" — buying extra food not on the day's set menu. Students can also choose to buy items with cash. So far, kids have taken to the new system, said Tussey Mountain cafeteria director Deb Stepisianos. Though the kids goof around a bit — putting the wrong finger down and such — so far only three sets of parents have opted out of the program, she said. And as Tussey's system was a beta test, they've had some trouble with the software, choking up lunch lines. "When it works, it's wonderful," she said.

#### **Going Too Far?**

The scanning system was developed in response to a federal regulation requiring that cafeterias hide who's getting free or reduced-price lunches, Curfman said. But cafeterias that use swipe cards or PIN numbers and debit accounts fulfill the same requirement and are often cheaper to run, according to Dennis Waiter, national marketing director at ARAMARK, which operates cafeterias at 350 school districts across the nation. FSS' system costs Tussey Mountain about \$50,000 for its four schools plus \$4,000-5,000 a year for maintenance, Curfman said. A swipe card system from SNAP Systems, the nation's largest purveyor of such systems, would cost between \$28,000-60,000 for a district that size, plus about \$3,000-4,000 a year for maintenance, according to Gloria Calvo of SNAP.

FSS wants to expand its fingerprint system for use in attendance taking and on school door locks, as the use of biometric scanners is spreading in U.S. schools. Eagen High School in St. Paul, Minn., for instance, has been using fingerprint scanners to check out books at the school library since last academic year. Fingerprints have the stigma of criminality, privacy advocates said, and there's no guarantee the data wouldn't get out to law enforcement authorities or other agencies later in the game.

"At some point my bet is, somebody's parents are going to file some sort of a lawsuit," said Anne Cavoukian, data privacy commissioner for the government of Ontario in Canada. "I think you're going to have some litigation on your hands: 'why are you treating our children like common criminals?'" Students' biometric data — such as fingerprint records — is considered a student record and falls under the Family Educational Rights and Privacy Act, a 1974 privacy law. In most cases, the law says parents have to give written permission every time a student's records are released to an organization other than the school system. But there are exceptions to FERPA that are different for every school district in the nation. Usually, lawyers said, schools have to give up their records if a judge or a district attorney asks. Districts differ on whether private lawyers can also grab student records for use in lawsuits, and when the police can do it.

#### **No Clear Picture**

Of course, that's if the police could even make use of the fingerprint scan data — and whether they can is unclear. FSS uses a fingerprint scanner from Groupe Sagem, a French company. The Sagem scanner doesn't store images of fingerprints. Instead, it records a few dozen points on a fingerprint and turns the location of those points into a number. The way the system is currently configured, it's more than 99 percent efficient for up to 3,000 kids, said Steve Ketcham, a programmer for Food Service Solutions.

You can't recreate fingerprint images from the data in the system, but if law enforcement had a similar system, they could match up the numbers. And Ketcham said FSS' system is a "stripped down version of the AFIS," a fingerprint-recognition system used by law enforcement. But Johns insists the numbers produced from the finger scanners can't be used by any other system. "I see no way for that process to be used by anybody else," he said.

## **Smart card plan 'to empower the citizen'**

*By Rachel Sylvester*

SMART cards, allowing everybody in the country to claim benefits, pay tax or obtain access to their medical record through machines in kiosks on street corners, are to be introduced by the Government. A report from the Performance and Innovation Unit (PIU), Tony Blair's think-tank in the Cabinet Office, will recommend the introduction

of cards that will operate in conjunction with a unique personal identifier, such as a thumb print. The aim is to increase the security of transactions on the internet. The Prime Minister has [pledged that all Government services will be available online by 2005](#) and there are concerns that personal information could be obtained by somebody else if there is not a secure way of identifying each individual.

But the plan, which will become Government policy once it is published in the spring, will create fears that ministers are trying to introduce ID cards through the back door. Each card will have a unique "chip" containing a range of personal details. The report will also recommend a massive increase in the amount of private information that can be exchanged between Government departments. Lord Falconer, the Cabinet Office minister in charge of the project on privacy, insisted that the cards would be voluntary. "This is about empowering the citizen, not about Big Brother government. The smart card could give you access, not just to information about you, but also to Government services, or to goods. The police could not stop and ask to see it. It is meant to give people confidence that the privacy of their data is protected."

At first, the smart cards will give people access to Government information. In the longer run, they will be used to carry out transactions such as paying tax, claiming benefit or registering the birth of a child. It would also be possible for an individual to use the card as a foolproof way of identifying himself to the private sector, for example when dealing with an internet bank. Last year, Barclays internet customers found that their accounts had been accessed by other people and [Powergen users found their details posted on a website](#). The Prime Minister's advisers say the opportunities are "almost limitless" once the public is convinced of the benefits of the scheme. They have been studying a system in Finland, where smart cards can be used as passports.

Although the unit's report will stress that the system will not be universal, some ministers are convinced that the next logical step is to press ahead with the introduction of ID cards. One said he thought it was inevitable that genetic ID cards, containing details of each person's DNA, would eventually be introduced. Last week, Jack Straw, the Home Secretary, proposed to give the police power to retain indefinitely DNA samples taken from innocent people.

Ann Widdecombe, the shadow home secretary, said: "If this is a card that's voluntarily held and is going to make data more secure then that's fine." Elizabeth France, the Data Protection Commissioner, who has been involved in the unit's study, has also called for the introduction of digital identification cards for doing business on the internet. The PIU inquiry has been considering how the privacy and security of data can be maintained in the light of new technology. The report, to be published in the spring, is also expected to recommend that the law should be changed to allow much more information to be exchanged between Government departments. Lord Falconer said: "We want to find ways in which information held by the Government can be used more effectively to provide better services to the citizen. But we cannot do that unless we also give the citizen confidence that his privacy will be protected."

**10 January 2000: [City] Europay chip secures internet card deals**

**18 September 2000: [City] ID Data puts its smart money on Aim**

**20 July 2000: [City] PowerGen site revealed customer bank details**

**17 April 2000: NHS 'smart card' may hold patient's records**

**8 March 2000: Blair wants everyone on the internet in five years**

**9 January 2000: [City] E-fraud heads for 15 per cent**

**4 December 1999: [City] The tangled web of fraud on the internet**

**1 December 1999: [City] Cybercrooks and superhighwaymen**

## **NHS 'smart card' may hold patient's records**

**By Rachel Sylvester**

**ISSUE 1788 Monday 17 April 2000**

A "SMART card" that carries a patient's medical records may be introduced as part of the Government's review of the NHS. The cards would allow people to find information about themselves, seek health advice or order repeat prescriptions at supermarket kiosks. All medical details and prescription requirements would also be entered on a central database. The proposal will provoke debate about confidentiality and the security of personal information. Civil liberties campaigners believe individuals could come under pressure to release information from their card to third parties such as an employer or insurance company. Many GPs are also expected to resist the plan, saying responsibility for holding health records should remain with them.

However, government advisers believe the cards would make doctors more accountable following the disclosure that some write "do not resuscitate" on elderly patients' notes. The cards are being discussed by the Government's advisory panel on "patient empowerment", one of six teams appointed [after the Budget](#) to come up with a blueprint for reform of the health service. They would be used in kiosks in supermarkets, libraries, post offices and doctors' surgeries. In the longer term, information could also be reached through a digital television or mobile phone. The system would link hospitals, surgeries, walk-in centres and NHS Direct, the telephone helpline, by giving staff immediate access to information about a patient.

Supporters believe it would also fulfil Tony Blair's desire to introduce a consumer culture into the NHS. Insiders believe the same card could be used to claim benefits, fill in tax returns or read National Insurance details. Dr John Chisholm, chairman of the British Medical Association's GPs' committee and a member of the Government team, said the cards would alter the balance in the relationship between patient and doctor. He added: "It is already changing from a paternalistic relationship where the doctor knows best to much more of a partnership." Dr Chisholm said legislation could be introduced to stop employers pressing staff to hand over personal details. Bob Gann, director of NHS Direct Online, who is also on the committee, said kiosks for the new internet service would be installed this summer and smart cards were the logical next step. He said concerns about confidentiality could be allayed by the use of a personal identification number.

**Digital Angel.net Signs Memorandum of Understanding With BITKOM Member Blue Impact AG to Supply Digital Angel Technology for "TellMan" Palm PC Product**  
**Blue Impact's membership in BITKOM, Germany's largest information technology association, is an important initial step toward wider deployment of Digital Angel technology in Europe**

Applied Digital Solutions, Inc. (NASDAQ:[ADSX](#) - news) today announced that its Digital Angel.net subsidiary has signed a memorandum of understanding with Blue Impact AG, a member of BITKOM, the Federal Association of Information Economy, Telecommunications and New Media. The agreement outlines the integration of Digital Angel technology into Blue Impact's TellMan palm PCs.

Commenting on the development, Richard J. Sullivan, Chairman and CEO of Applied Digital Solutions, said in a statement: "We are very pleased with this first major step toward widespread deployment of Digital Angel technology. We believe this partnership with Blue Impact is only the beginning of our effort to introduce Digital Angel to a potentially huge worldwide market. Working with Blue Impact, a member of BITKOM, bodes extremely well for the European deployment of Digital Angel. We will continue to align ourselves with companies and organizations, both domestically and abroad, that recognize the tremendous technological leap forward that Digital Angel represents."

TellMan is a dual-band GSM (Global System for Mobile) receiver and a miniaturized GPS navigation module for the Handspring Visor. Currently, four different functions are available to the user: Personal Digital Assistant (PDA), GSM telephone, GPS positioning system, and web/WAP terminal. The agreement calls for the inclusion of Digital Angel GPS technology in TellMan as the initial step. In a second stage, Digital Angel's sensor technology will be integrated with anticipation of entering the medical monitoring market, among others.

**About Blue Impact**

Blue Impact is a developer and integrator of innovative communication solutions and systems, and produces capacity for communication, navigation and service projects with its worldwide network of partner firms. With the development of Tellman, Blue Impact AG has taken the first important steps towards offering the mobile communication society its universal wish for a future without the need for cables.

**About BITKOM**

BITKOM is Germany's most important association at the federal level for companies in the information economy, telecommunications and new media. BITKOM represents 1,250 companies whose members represent combined revenue of 230 billion DM and approximately 700,000 employees.

**About Digital Angel.net Inc.**

In December of 1999, Applied Digital Solutions announced that it had acquired the patent rights to a miniature digital transceiver -- which it has named Digital Angel. Digital Angel will be able to send and receive data and be located by GPS (Global Positioning System) technology. The company believes this technology will enable it to tap into a multi-billion dollar marketplace with a number of applications that will prove to be extremely popular. These potential applications include: monitoring the medical condition of at-risk patients; tracking endangered wildlife or household pets; managing livestock and other farm-related animals; pinpointing the location of valuable stolen property; finding lost airline baggage and postal packages; managing the commodity supply chain; preventing the unauthorized use of firearms; and providing a tamper-proof means of identification for enhanced e-commerce security.

In September of 2000, Applied Digital Solutions acquired Destron Fearing Corporation and merged it into its Digital Angel subsidiary. Destron Fearing, based in South St. Paul, Minnesota, has been in the animal identification business since 1945 and manufactures a broad line of electronic and visual identification devices and information systems for companion animals, livestock, laboratory animals, fish and wildlife. The company owns patents worldwide in microchip technology and is a leader in the world evolution of radio frequency animal identification. For more information about Digital Angel, visit [www.digitalangel.net](http://www.digitalangel.net). For more information about Destron Fearing, visit [www.destronfearing.com](http://www.destronfearing.com).

**About Applied Digital Solutions, Inc.**

Applied Digital Solutions is a leading-edge, single-source provider of e-business solutions. The Company differentiates itself in the marketplace by enabling e-business through Computer Telephony Internet Integration (CTII™). With five-year revenue growth (from 1994 to 1998) of 64,012%, Applied Digital Solutions is ranked as the fifth fastest-growing technology company by Deloitte & Touche in its 1999 Technology Fast 500 listing. For more information, visit the Company's Web site at [www.adsx.com](http://www.adsx.com). For more information about Digital Angel, visit [www.digitalangel.net](http://www.digitalangel.net).

Statements about the Company's future expectations, including future revenues and earnings, and all other statements in this press release other than historical facts are 'forward-looking statements' within the meaning of Section 27A of the Securities Act of 1933, Section 21E of the Securities Exchange Act of 1934, and as that term is defined in the Private Litigation Reform Act of 1995. The Company intends that such forward-looking statements involve risks and uncertainties and are subject to change at any time, and the Company's actual results could differ materially from expected results. The Company undertakes no obligation to update forward-looking statements to reflect subsequently occurring events or circumstances. ADS Investor Relations: Robert Jackson, 561-366-4800, 561-366-8591 fax, [rjackson@adsx.co](mailto:rjackson@adsx.co)

**PRESS RELEASE**

**Secretary Of Commerce, Norman Y. Mineta, To Attend October 30th Digital Angel™ Event In New York City**

PALM BEACH, FLORIDA, Oct. 19, 2000 -- Applied Digital Solutions, Inc. (NASDAQ:[ADSX](#)) a leading, single-source provider of e-business solutions, today announced that Secretary of Commerce Norman Y. Mineta has agreed to attend its demonstration of Digital Angel™, to be held on October 30th in New York City. Those attending the event will witness a Digital Angel breakthrough: the first-ever operational combination of sensor technology and Web-enabled wireless telecommunications linked to GPS location-tracking systems.

"We're extremely pleased that Secretary Mineta will attend our Digital Angel demonstration," said Richard J. Sullivan, Chairman & CEO of Applied Digital Solutions. "Secretary Mineta has been a champion of 'digital inclusion' -- making access to digital technologies more widely accessible to all segments of society. He has been an advocate of creating viable partnerships between the public and private sectors as part of a national digital inclusion campaign. We believe our Digital Angel technology has enormous potential along these lines. In fact, Digital Angel represents an exciting 'new frontier' in the digital revolution because it offers so many potentially life-saving capabilities."

Secretary Mineta, a former Congressman from California, became the 33rd Secretary of Commerce this past summer. He has pledged to work toward "digital inclusion" for all Americans and to ensure an accessible and accountable government. Secretary Mineta oversees a department of 40,000 people with a \$5 billion budget that promotes commerce, keeps a vast array of economic statistics, conducts the census, issues patents and trademarks, and develops technology, measurements and standards.

#### **Background on Digital Angel™**

In December of 1999, Applied Digital Solutions announced that it had acquired the patent rights to a miniature digital transceiver -- which it has named Digital Angel. Digital Angel will be able to send and receive data and be located by GPS (Global Positioning System) technology. The company believes this technology will enable it to tap into a multi-billion dollar marketplace with a number of applications that will prove to be extremely popular. These potential applications include: monitoring the medical condition of at-risk patients; tracking endangered wildlife or household pets; managing livestock and other farm-related animals; pinpointing the location of valuable stolen property; finding lost airline baggage and postal packages; managing the commodity supply chain; preventing the unauthorized use of firearms; and providing a tamper-proof means of identification for enhanced e-commerce security. For more information about Digital Angel, visit [www.digitalangel.net](http://www.digitalangel.net).

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## **"Resistance Is Futile. You Will Be Assimilated!"**

**By Thomas Horn**

The Borg ("Cyborg") are considered by Star Trek fans to be the greatest villains ever introduced to television audiences. The biological and technological terrors made their debut on May 8th, 1989 in the "Q, Who?" episode of The Next Generation. "This is the Borg Collective," they said menacingly. "Prepare to be assimilated. We will add your biological and technological distinctives to our own. You will adapt to service us. Resistance is futile."

Viewers sat on edge as the cybernetically enhanced and immensely powerful humanoids overcame the USS Enterprise and her crew. Implanted with biometric devices connected to a sophisticated communications network known as "The Borg Collective," the superior beings moved without conscious to assimilate the Star Trek crew and to implant them with biometric devices designed to facilitate the needs of The Collective. The program was an effective two-part cliffhanger. When the crew of the Enterprise escaped, Trekkies around the world exhaled a borg-like collective sigh of relief.

#### **"I AM LOCUTUS OF BORG!"**

At one point during The Next Generation series, captain Jean-Luc Picard was captured and assimilated by the Borg. He became known as Locutus of Borg and promised to "raise the quality of life for all species." This would be accomplished by forced integration into the Collective. Several weeks ago a disturbing secular news story illustrated how life in the not-to-distant future may imitate the filmmakers art. Applied Digital Solutions (ADS) received patent rights to Borg-like technology named Digital Angel (TM), a miniature digital transceiver specifically designed for human implantation. The Digital Angel transceiver is designed to be injected beneath the skin with a hypodermic needle.

According to ADS, "The implantable transceiver sends and receives data and can be continuously tracked by GPS (Global Positioning Satellite [*read "the collective"*]) technologies. The transceiver's power supply and actuation system are unlike anything ever created. When implanted within a body, the device is powered electromechanically through the movement of muscles, and it can be activated either by the 'wearer' or by the monitoring facility" [*read "the collective"*]. In a company press release dated February 15th, ADS stated that "Digital Angel has generated a large and positive response from both the investing public and those who are interested in participating in the wide array of applications for this technology."

ADS also claims that Digital Angel has "a variety of potential uses, such as providing a tamper-proof means of identification for enhanced e-business security, animal tracking, locating lost or missing individuals, tracking the location of valuable property and monitoring the medical conditions of at-risk patients." Digital Angel (<http://www.digitalangel.net>) is the latest in emerging technologies designed to "enhance" the human species. Research teams funded by the National Institutes of Health, NASA, and a barrage of privately funded laboratories are also

developing brain implants that will make it possible for people to communicate through computers using the power of thought. This could ultimately facilitate a wide array of complicated tasks assigned by the New Collective.

If this all sounds a bit Orwellian--it is. It is also reality, and many Christians believe such technology points to an antichrist system that will ultimately assimilate ethnic groups, ideologies, religions, and economics from around the world into a New World Order "Collective." Control of the NWOs "assimilated" will be derived at the expense of individual human liberties. Everyone, "both small and great, rich and poor, free and bond [will be forced to] receive a mark [charagma; from Greek *charax* meaning to stake down into or "stick into" such as with a *hypodermic needle injecting something under the skin!*] in their right hand, or in their foreheads: And that no man might buy or sell, save he that had the mark, or the name of the beast, or the number of his name. Here is wisdom. Let him that hath understanding count the number of the beast: for it is the number of a man; and his number is *Six hundred threescore and six [chi xi stigma; The Greek "stigma" means to "stick, incise, or punch into the skin" as with a hypodermic needle injection.]*" (Rev. 13:16-18-emphasis added)

According to experts, experiments in behavior modification have also been conducted using implanted chips. Dr. Carl Sanders points out that "the frequency of the chip [has] a great effect upon behavior...you could cause behavioral change." Dr. Sanders continues: "One of the projects [we worked on] was called the Phoenix project which had to do with Vietnam veterans. We had a chip that was called the Rambo chip. This chip would actually cause extra adrenaline flow....Microchips can also be used for migraine headaches, behavior modification, upper/downer, sexual stimulant and sexual depressant." Behavior modification using implanted chips may explain the ruthless methods of assimilation that will be employed by the borg-like followers of the Antichrist. (See Rev. 13:15; 20:4)

**BE ASSIMILATED, OR BE STEREOTYPED AND DESTROYED!**

One cannot read the books of Revelation and Daniel without observing the unique combination of political (Antichrist) and religious (False Prophet) personalities operating within the antichrist's "collective." Convincing religious leaders and laypeople to follow such anti-Christian and anti-democratic patterns means dismantling conservative and evangelical apologetics. Enter a pattern reminiscent of Jewish persecution in post war Germany: Isolation of and discrimination against conservatives who fear the loss of individual human liberties is mandatory. The need to trivialize those who appreciate individual freedoms has already begun.

In Russia, where national tax ID numbers are being introduced, Andrei Zolotov Jr. wrote in The Moscow Times: "...some right-wing Christians fear the growing computerization of the world is opening the way for the coming of the Antichrist. The government's new, widely publicized plan to give every citizen a tax identification number and talk of introducing social security cards with bar codes - dreaded by those who see Satan's number, 666, in the codes - has apparently given them cause for further alarm."

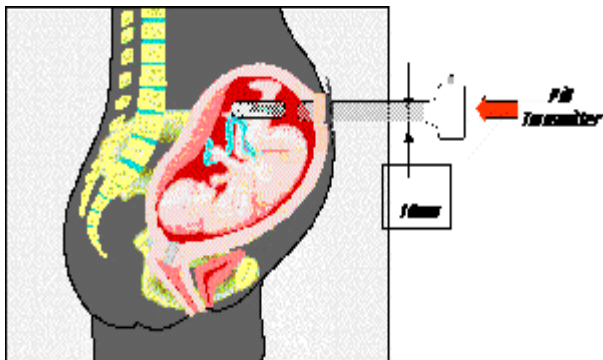
The Holy Synod of the Russian Orthodox Church addressed the Governments plans, saying, "Many Christians, who consider the name given to them in baptism holy, consider it unworthy to ask the government for some new 'name' in the form of a number." But Sergei Chapnin, editor of the Russian magazine Sobornost Orthodox (www.sobor.ru), said the religious community's response is a sign that an "occult" mentality is penetrating the Orthodox Church. "To believe in the magic of numbers is absolutely a non-Christian attitude toward life," Chapnin said. "If some people are afraid of it, it only says that occultism is intruding into Christian consciousness, and first of all the consciousness of neophytes who are the majority in today's Russian Orthodox Church."

How convenient.

**LOCUTUS OF BORG: "We will raise the quality of life for all species."**

Dr. Carl Sanders, electronics engineer and inventor of the Intelligent Manned Interface biochip, worked on microchip technology as a method of raising the quality of life through medical advancements. Later he worried, "There are bills before congress right now that will allow them to inject a microchip in your child at the time of birth for identification purposes. The president of the United States of America, under the 'Emigration of Control Act of 1996', Section 100, has the authority to deem whatever type of identification is necessary - whether it be an invisible tattoo or electronic media under the skin."

Dr. Sander's prophecy is coming true. Laboratories like The Fetal Treatment Center (FTC) at UC San Francisco have now connected (NASA's) implantable biotelemetry devices to unborn babies. Other specialists, such as Dr Roy Bakay of Emory University in Atlanta, Georgia, are already installing chip-to-brain implants. Charles Ostman, a senior fellow at the Institute for Global Futures and science editor at Mondo 2000, appreciates the implantable chip technology. "Neuroprosthetics are inevitable," he says. "Biochip implants may become part of a rote medical procedure. After that, interface with outside systems [ *read "the collective"* ] is a logical next step."



Professor Kevin Warwick, the first known recipient of a biometric chip implant, speaks excitedly of human microchip implantation. "Right-o, got the signal, got the implant; all I've got to do is run a wire from the implant to my nervous system. I'm so excited about it, I want to get on with the next step straight away. Let's see if we can control computers directly from our nervous system." When asked about the Borg-like ramifications of such technology, professor Warwick responds "It is possible for machines to become more intelligent than humans in the reasonably near future. Machines will then become the dominant life form on earth." Spoken like a good little Borg wannabe.

- And the third angel followed them, saying with a loud voice, If any man worship the beast and his image, and receive his mark in his forehead, or in his hand, The same shall drink of the wine of the wrath of God, which is poured out without mixture into the cup of his indignation; and he shall be tormented with fire and brimstone in the presence of the holy angels, and in the presence of the Lamb. And the smoke of their torment ascendeth up for ever and ever: and they have no rest day nor night, who worship the beast and his image, and whosoever receiveth the mark of his name. (Rev. 14:9-11)

By Thomas Horn

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Special Thanks from Worthy News to Thomas Horn for this excellent article.

## Digital Angel months ahead of schedule

by George Whitten

Wouldn't life be grand if you didn't have to worry about being robbed? What if you didn't have to worry about losing your money? Or that there would be no more fraud which in turn would cause the things you buy to be cheaper? What about the drug trade, if it could be absolutely regulated with an absence of cash but at the same time be controlled? Think about the tax revenue of a trade that is absolutely regulated. This is the answer to the drug problems. What if counterfeiting could be ended? What about the ability to have only the registered person of a specific firearm be able to fire that particular firearm? Wouldn't it be great if every kid could be tracked? The end of kidnapping. The end of missing people. What about criminals? Every criminal could be tracked and monitored and could be totally linked to any crime. What if the military could know for a fact who was alive or dead on the battlefield and what condition they were in? Think of the amount of lives that could be saved. What about tracking the medical progress of any individual? Wouldn't it be great if someone has a heart attack and instantaneously a 911 call is issued and the ambulance is summoned immediately? What about the ability to track poultry and beef so that contamination could be tracked all the way back to the farm? Do you think this is too good to be true? Digital Angel technology is months ahead of schedule. Will this be the solution to the world's problems?

What is a Digital Angel? <sup>1</sup> Digital Angel is a trademarked technology of Applied Digital Solutions. The technology incorporates every aspect of the digital world. A miniature sensor device, which is smaller than a grain of rice, is equipped with a tiny antenna. The device is powered electromechanically through the movement of muscles. This device captures and wirelessly transmits vital data by the user such as body temperature and pulse rates, which is relayed to an internet-integrated ground station. Using GPS (Global Positioning Satellite) technology the wearer of the sensor device can be tracked within feet of their actual position on the earth. Because the system is integrated into the internet, information about the wearer of the device could be monitored from any desktop or notebook connected to the internet. Digital Angel technology was first scheduled to be prototyped by the end of the year, but because of rapid progress on the technology it will be prototyped in October in an invitation-only event in New York City.

- *And he causeth all, both small and great, rich and poor, free and bond, to receive a mark [charagma; from Greek charax meaning to stake down into or "stick into"] in their right hand, or in their foreheads....Here is wisdom. Let him that hath understanding count the number of the beast: for it is the number of a man; and his number is Six hundred threescore and six (Rev. 13:16-18)*

Did the prophet foresee a hypodermic needle injecting something under the skin?

- And the third angel followed them, saying with a loud voice, If any man worship the beast and his image, and receive his mark in his forehead, or in his hand, The same shall drink of the wine of the wrath of God, which is poured out without mixture into the cup of his indignation; and he shall be tormented with fire and brimstone in the presence of the holy angels, and in the presence of the Lamb. And the smoke of their torment ascendeth up for ever and ever: and they have no rest day nor night, who worship the beast and his image, and whosoever receiveth the mark of his name. (Rev. 14:9-11)

Is Digital Angel technology the answer to the world's problems or merely the climax moment of humanity, as we know it? Are you still in the valley of decision? <sup>2</sup> The parable of the 10 virgins is an example of the church that is awaiting the coming of the bridegroom, but only 5 of the virgins were prepared. <sup>3</sup> Each of the virgins were waiting for the coming of the bridegroom, each thinking they were part of the bride but in actuality only 5 were prepared. The parable of the ten virgins is a message to those people who believe they are part of the church, not to the unsaved. The lost are not expecting the second coming of the Lord Jesus and scoff at the idea of his return. <sup>4</sup> This is an ominous warning to those living in unrighteousness at the coming of the antichrist, the door is shut to them. <sup>5</sup> Are you part of the elect? **Today is the day of decision!!!** From the Digital Angel website: "The key message right now is this: Digital Angel® isn't a blue-sky technology. This is real. Digital Angel® breakthrough technology is here. It's live!"

### 1. DIGITAL ANGEL PRESS RELEASE.

2. Joel 3:14 Multitudes, multitudes in the valley of decision: for the day of the LORD is near in the valley of decision.

3. Matthew 25:1-13 ¶ Then shall the kingdom of heaven be likened unto ten virgins, which took their lamps, and went forth to meet the bridegroom. And five of them were wise, and five were foolish. They that were foolish took their lamps, and took no oil with them: But the wise took oil in their vessels with their lamps. While the bridegroom tarried, they all slumbered and slept. And at midnight there was a cry made, Behold, the bridegroom cometh; go ye out to meet him. Then all those virgins arose, and trimmed their lamps. And the foolish said unto the wise, Give us of your oil; for our lamps are gone out. But the wise answered, saying, Not so; lest there be not enough for us and you: but go ye rather to them that sell, and buy for yourselves. And while they went to buy, the bridegroom came; and they that were ready went in with him to the marriage: and the door was shut. Afterward came also the other virgins, saying, Lord, Lord, open to us. But he answered and said, Verily I say unto you, I know you not. Watch therefore, for ye know neither the day nor the hour wherein the Son of man cometh.

4. 2 Peter 3:3 ¶ Knowing this first, that there shall come in the last days scoffers, walking after their own lusts,

5. 2 Thessalonians 2:8-12 And then shall that Wicked be revealed, whom the Lord shall consume with the spirit of his mouth, and shall destroy with the brightness of his coming: Even him, whose coming is after the working of Satan with all power and signs and lying wonders, And with all deceivableness of unrighteousness in them that perish; because they received not the love of the truth, that they might be saved. **And for this cause God shall send them strong delusion, that they should believe a lie: That they all might be damned who believed not the truth, but had pleasure in unrighteousness.**

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## **Military Personnel to be Issued Smart Card Called "M.A.R.C." Card**

Many of you are already aware that the Army currently issues a "smart identification card" to its service members. U. S. Senator Charles Robb (Virginia) wants to now begin issuing the standardized smart cards incorporating the newest and latest smart card technology to every person in all military branches. The cards will be used for everything from identification purposes to commissary privileges. The cards presently being issued to Army personnel are called "M.A.R.C." cards. The "MARC" acronym stands for "Multi-technology Automated Reader Card" - the MARC card. Was the M.A.R.C. acronym chosen to mock Christians who believe, as is described in the Book of Revelation, that there will be a government imposed "system" in which no one will be able to buy or sell lest he has the "MARK" of the Beast.

Could it possibly be that not one single person involved in establishing this card and coming up with the name had ever heard of the Mark of the Beast?. I doubt it! In fact, it's almost as if the "MARC" name was first chosen, then some grouping of words was selected to fit the "acronym". A type of "reverse engineering" just to achieve the desired MARC (MARK) designation. Who knows why. That's why I believe it was done to mock believers. They considered the obvious analogy and decided it was acceptable - as a joke or for whatever reason. Now Senator Robb wants to further expand the M.A.R.C. card system. One other note. Whenever you hear that something is being done to make government "more efficient," it simply means: a plan to achieve greater control exerting less effort at reduced cost.

### **Senate Floor Statement by Senator Charles S. Robb**

**July 7, 1997**

Mr. President, I'd like to take a few minutes to discuss an amendment I'm offering to this year's DOD authorization bill that will make a real difference in the lives of all members of the naval service -- and eventually all members of our armed forces. It will eliminate many long lines and hours of frustration, it will substantially reduce record keeping errors and it will save the DOD and the taxpayers hundreds of millions of dollars. And it represents the next phase of the effective utilization of smart card technology -- a technology I've been encouraging and working on for many years.

Mr. President, when a new recruit joins the armed services today, he or she faces a long and tedious registration process. A typical new recruit faces hours of waiting in line to fill out forms with his or her name, date of birth, rank, military I.D. number, and so forth, only to be sent over to another line to fill out another form with much of the same information again. Not only is this process aggravating for our new recruits -- it's a waste of the service's time and personnel. It takes dozens of people countless hours to process in each new recruit through this inefficient system, costing the service valuable time and money that it could be putting to better use elsewhere.

Once registered, a new recruit is issued a handful of ID's and cards to carry. A typical service member today might be required to carry a general ID card, an immunization card, a meal card, an equipment card, a weapons card, a military driver's license, a vehicle registration, a card to pick up mail, a card to carry if staying as a guest at another base, and if lucky enough to be stationed near some good fishing, a fishing permit. With so much clutter, it's not uncommon for a service member to misplace one of their cards, which wastes even more of the military's time and resources replacing them. For years, I've been looking at ways that the military could streamline the methods it uses for its registration and record keeping, looking for a way to improve what I saw as an outdated and inefficient system of issuing multiple cards containing duplicate information.

The government and the private sector have been using cards for years as a means of information storage. Many of the earliest cards had just a name and number, much like the social security card that is still in use today. As the need for increased security and efficiency in the transfer of information from a card grew, however, we saw the introduction of cards that relied on new information storage systems like bar codes and magnetic stripes, much like the kind found on today's credit cards, ATM cards, telephone calling cards and in dozens of other card-based applications. And as the technological capabilities of cards have increased, so has the number of cards that each of us carries every time we leave our residence.

Mr. President, we now stand on the brink of a new explosion in card technology, one that promises to offer us even greater convenience and efficiency in everyday life, saving money and time while increasing our control over the information we provide to others. After years of research and development, I'm pleased to report that a new, user-friendly card technology will soon allow us to replace the handful of cards now used in the DoD with a single, multi-application smart card.

Mr. President, with the amendment that I'm offering today, next year, under a pilot program that I've been working closely with the Department of Defense and the Department of the Navy to develop, a new recruit won't face the long and wasteful lines, the duplication of information or the cumbersome bundles of cards that many of us remember. Instead, upon arriving at boot camp, each new sailor and Marine will be issued a single card: the MARC card. Short for Multi-technology Automated Reader Card, this card will be used across the entire Navy and Marine Corps next year, and if it works as well as some of us believe it will, we'll then extend it to all of the armed forces. The MARC card is a remarkable achievement. The MARC card can carry your security clearance. The MARC card can carry your meal information. The MARC card can hold your immunization records. The MARC card can serve as your room key.

Mr. President, the long term savings that will result from this program will be substantial; the improvements in the increased speed and quality of services will be enormous. With the MARC card, we can reduce support infrastructure, thereby improving our tooth to tail ratio while making our sailors' and Marines' lives easier.

The MARC card is one of the first widespread applications of the most exciting new card technology on the market today: the smart card. Smart cards like the MARC card rely on an integrated circuit chip - a microchip - to store more information and data than was ever before possible on a single card. Within each card is a small microprocessor along with a sizeable memory capacity, which gives each smart card the capabilities of a small microcomputer. The capabilities of the smart card are so great that a single card can perform all of the functions that this entire stack of cards does, and perform dozens of time-saving new applications as well. Unlike older cards, the smart card is easily updatable, and has the capability to constantly take on new information.

Yet the real strength of smart cards like the MARC card lies not in the convenience of carrying so much information on a single card, but in the money that we can save as a result. By harnessing the strength and memory of a small computer inside of a portable plastic card, a multitude of new applications can be offered that will increase the efficiency of government, cutting down expensive and unnecessary administrative costs while reducing waste, fraud and abuse at all levels of government.

Mr. President, I've seen this card in action, and the savings and increased efficiency it can offer the members of our armed forces are really impressive. In the past, when our sailors would dock at a naval base upon their return from sea, they faced a long and tedious process of waiting in line after line to check in to their shore station. Often taking up to a week, a sailor would need to fill out countless forms to register for quarters, for medical treatment, for security clearance, for his next assignment, for the mess hall, etc.

But today at the Smart Base in Pascagoula, Mississippi -- which is the first naval base to automate its operations using the MARC card -- a sailor who arrives off of the USS Yorktown faces a check-in time of just a few minutes. By simply walking up to a kiosk, he can insert his MARC card into a reader not unlike an Automatic Teller Machine, and within seconds, be assigned his quarters and other necessary information, while personal data needed by the command is simultaneously zipped electronically around the rest of the base. His MARC card even serves as his room key. Not only does this process save sailors a lot of wasted time, but it reduces the number of administrative staff needed to check in an entire ship. To process every sailor from an arriving ship, a base need only have a handful of staff on a hand and a few kiosks that interact with the MARC card.

Mr. President, the MARC card can improve the efficiency of every operation across the military. Let me give you an example. Today, when a sailor or marine heads to a mess hall to eat, he has to show his ID card, as well as his meal card, to one of the duty personnel, who tediously records the information from both cards by hand into a ledger. After each meal, another officer must spend hours reconciling who ate what on that particular day, at a great expense, both in the time involved and the money it costs. On average, it takes a mess hall 4-6 hours a day to account for all the meals that are eaten.

With the MARC card, however, sailors or marines will simply swipe their cards through a reader as they enter the mess hall and be automatically accounted for by a computer. Anyone who tries to sneak an extra meal without paying is caught in the act, which helps the Navy reduce fraud. After each meal, the officer in charge of the mess hall will only need to call up a file on their computer to account for the meals served. The total time involved is reduced from several hours to just a few minutes.

Not only will this project save the Navy time and money -- the food service savings alone will save over 2 million dollars in the first year, a savings of 49% -- it will also allow our armed forces to allocate more resources to the duties they most need to focus on. From security access to dining hall access, from checking out weapons to checking out library books, the MARC card can save the armed forces thousands of hours a year in wasted administrative costs. The \$36 million I'm asking for in this amendment doesn't authorize any new spending -- it only redirects the use of \$36 million within the Navy and Marines O&M account that has already been authorized by the committee. Because the MARC card program has been so effective in reducing the costs of general administration in the military, our investment of \$36 million in an expansion of the MARC program will save the Navy and Marines O&M account many millions more in FY 98 and beyond.

By investing \$36 million in the MARC program, the Navy's project manager estimates that the savings to O&M from using the 3 MARC applications already in place across the Navy and Marines will top \$134 million in FY 98. Now that's just the savings from using the MARC card in 3 applications -- Food Service, Security Access and Clearance Verification. As other applications are deployed, the savings may top \$200 million in FY 98, and well over \$500 million over the next 5 years.

Mr. President, with the budget situation that we face today, we are compelled to look to all areas of the government to eliminate needless administrative services and streamline the many duties that our government performs. In this era of "reinventing government", smart card technology has potential applications not just in the military, but all across the government. By eliminating long waits in lines at government agencies, by eliminating the manual entry of data all across government agencies, by doing away with duplication of data across the government, by eliminating fraud, smart cards can slash the administrative costs of government while improving the quality and speed with which many government services are delivered.

Mr. President, the technology is here, in our hands, and the savings to be had are real, immediate and substantial. I firmly believe that we should move forward with applying smart card technology, not only in the military, but all across the government. Now Mr. President, I realize that smart cards are still a new technology right now, and that they're unfamiliar to many potential users. I am aware that some people are uncomfortable with the idea of having a single card for everything they need. Placing so much information on a single card raises more than a few eyebrows over privacy and security concerns.

And I know that a lot of people are concerned that, by placing so much personal information on a single card, an employer might have access to medical records, or a librarian might be able to find out what you ate for lunch that day. Let me say that I share these concerns. [No surprise - here comes the "But..."]

But in fact, Mr. President, while all this information may be carried on a single card, powerful encryption technology ensures that personal information is seen only by those who the individual wants to see to see it. The technology available today allows us to select what information is carried on our smart card, and guarantees that we are the only ones who can grant access to that information. Even though we can store our financial and medical records on the same smart card, the card's microchip is divided into separate compartments that make it impossible for our bank to see our medical records and our doctor to see our last bank deposit.

And if we should lose our card, anybody who finds it will discover that it's useless to them. Because without the proper authorization code that only the individual knows -- and with more sensitive applications, without biometric authentication like hand geometry scanners -- the card won't work in the hands of anybody but it's owner. Just as our ATM card is useless to a thief without the proper PIN number, a thief will find that, without authentication by its owner, a stolen smart card is a worthless piece of plastic. In an era where our personal information is becoming increasingly easier for others to access, where our very personal and private activities can be electronically tracked, smart cards are a way to return control over this information where it belongs: in the hands of the individual. And with modern-day encryption and other security measures built into the chip on a smart card, the information on this card is more secure from theft or fraud than any credit card or ATM card in use today.

Mr. President, there is no doubt of the need for increased efficiency, security and portability of information across all sectors of our government. We have the technology, literally, in our hands to make it happen. Already, several other government agencies have begun to implement this technology in a variety of applications across government. Today, for example, smart cards are used as identification and security badges in government buildings. In states like Wyoming, pilot programs are underway to use smart cards to electronically disburse WIC and food stamp benefits. In several western states, a smart card called the "health passport" is being used to increase the portability and accessibility of an individual's medical records while safeguarding their confidentiality. At colleges like the University of Michigan, a single smart card can call up a student's financial aid records, buy her books and open the door of her dorm.

On our subways and our military bases, in our hospitals and our schools, across the public and private sector, smart cards can cut down the time we spend on burdensome administrative work and save us valuable time and resources. But the reason I'm so enthusiastic about this new technology, Mr. President, is not just because smart cards can eliminate waste. I'm not here speaking today simply because smart cards can save us time and money. I'm strongly supportive of this new technology because smart cards can make our lives better and easier. Whether it's reducing the time we wait in line at a government office or providing a doctor the information needed to save a life, smart cards can make our entire infrastructure more user-friendly and efficient; smart cards make technology work better for us.

I am confident that pilot smart card programs like the MARC program will demonstrate the effectiveness of smart cards and the need for this technology across government, and will lead to increased use of this technology in our future. That's why I'm so excited about it and that's why I'm so pleased the managers seem willing to include this provision in their manager's amendment later this evening. With that, Mr. President, I thank the chair and I yield the floor.

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