

20-C The Tribulation

Lecture Notes

1. Handouts, Scripture page
2. **Identity Theft** = The fastest-growing crime
Internet = The fastest-growing technology
E-commerce (Cybercash) = The greatest change in money & business. > 90% of transactions
3. **UPC barcodes** – Universal Product Code. George J. Laurer w/ IBM. Introduced 1973.
4. UPC replacement – **ePC** products
5. **RFID chips**

1. Passive	2. Active	3. Smart (Programmable)
1. Read only	2. Read / Write	3. Trackable

‘Implantable **Biochip**’ First used in **animals** – millions implanted worldwide since 1991–
(**EID** = Electronic Identification) now becoming **mandatory** (like a Driver’s License)
6. **Uses:**

Inventory Control – Gillette Corp. just bought 500 million RFID chips as Smart Tags
Product ID -- **EAS** = Electronic Article Surveillance
Retail Check-out – **Trolley Ponder**
Smart Tags – eg. Expiration date, cooking instructions, etc.
Security Toll Booths
Euro Banknotes (2005) **U.S. Money strips** – **Mew** from Hitachi
Bus Tolls Personal ID
Access Control
7. **GPS integration**

Tracking Athletes (Boston Marathon)
Tracking Vehicles – AVL (Automatic Vehicle Location) GlobalTrax from GeoSpatial Technologies, FleetTrack, Teletrac, Roadeye, etc. **GIS** (Graphical Information Systems) software used.
Tracking People – **PNS** = Personal Navigation Systems, www.geosentry.biz, www.digitalangel.net, www.wherifywireless.com,
Tracking **ANYTHING** **Sniper rifle** to implant GPS trackable chips.
Sky Eyes (Gen-Etics) in Europe
ParkWatch in entertainment parks
Criminals – Sensormatic’s SenTrac ID security system
Cars in Belgium to allocate road taxes, based on how much travel you do
OnStar system in American cars
8. **Applied Digital Systems** (ADSX) – Digital Angel, Verichip, VeriPay, ThermoLife (Advanced Power Systems)
9. **ISO 9002 system** – 3 sets of 6 digits – **6 6 6** – 18 digits in all (International Standards Organization)
10. **Iridium** – **66** low-orbit satellites – Transponders
11. **Biometrics**

Fingerprints – eg. Biomouse, West Seattle Thriftways (Indivos), Pennsylvania school lunch rooms
Iris Scans – ATM’s, access, Driver’s Licenses !!
Voice Prints Digital Photographs
DNA Hand Geometry
Facial Geometry
12. **Video Surveillance** – CCD chips
Super Bowl
Great Britain
Facial Recognition software – FaceIt (Visionics)
13. **Smart Cards**

MARC
Student Cards – to send money & control purchases, class attendance,
Toll Cards Access Control
Personal ID – Medicare, Medicaid, Food Stamps,
Security – Pentagon cards
Cyber Cash – Mobil Speed Pass, EZ Pass, Freedom Pay, Fast Trak, etc. **ePurse** = Mondex

14. **Military** – Electronic Dog Tags (**PIC** = Personal Information Carrier); DNA, Implanted Chips (England), MARC, etc ‘There will never again be an unknown soldier in battle.’
15. **Electronic Surveillance**
 - Carnivore – FBI (Etherpeek)
 - Echelon – NSA Ft. Meade, MD; electronic ‘dictionary’; roving wiretap
 - Cell Phones – 911 laws; **CALEA** = Common Assistance for Law Enforcement Act (1994)
 - Microsoft ‘Backdoors’; MS Word documents
16. **National ID** – Sept 96 – Illegal Immigration Reform & Immigrant Responsibility Act (Clinton)
 - Hong Kong & many other countries
 - Driver’s License** effectively becoming a National ID card – Fingerprints, Iris scan, digital photo
17. Universal Health Card = Smartcard.
18. Total Information Awareness
19. U.S.A. Patriot Acts I & II
20. Homeland Security Act
21. L.U.C.I.D.
 - LUCID** stands for **Universal Criminal Identification Database**
 - universal biometric ID-card** – This card contains all personal data of the carrier, like voice, iris, feet and fingerprints, facial shape and DNA-samples.
22. **Cyber cash**
 - Mondex** – Monetary / Dexter = Cashless system franchised worldwide in many nations. Uses Smart Card technology with chip that stores biometrics and other ID info as well as financial information. Used with **PET** device (**P**ersonal **E**lectronic **T**ransfer) for internet, ATM’s, etc. The **EU** is expected to adopt Mondex as their unified currency solution. **Master Card** bought 51% ownership in Mondex. **Motorola** has developed implantable biochips for use with Mondex.
23. The Embedded Internet – **Internet II** – vBNS = Very High Speed Backbone Network Service (2 GBS)
24. A Swedish company called **Cypak** has come up with some technology that allows it to print computer chips, sensors, switches, and short-range antennas on a piece of paper. RFID chips.
25. **GLS** (**G**lobal **L**ocating **S**ystem) for Cell Phones. A company www.ulocate.com on web, 2 phones for \$20.00 per month. The Canadian division is called ‘**Trackem**’. Many such companies exist. Another is www.accutracking.com, lets you see locations, speed and headings of any mobile phone or other ‘asset’. Your computer can track anyone, anywhere, anytime and even listen in on their conversations, keeping a detailed record on your computer.
26. With the right software, anyone can remotely silence the ring on your **Home or Cell Phone** and phone you, turning your phone into a secret listening device anytime, even while the phone is on the hook.
27. 666 – the number of man
28. www.yahoo.com WWW = **WWW** = ‘666 He is God – Yahweh’
29. **VISA** VI = 6 in Latin; S = 6 in Greek (stigma); A = 6 in Ancient Babylonian (Chaldean)
30. Ken Peters’ vision
 - Nature of the Mark
 - Personal Computers – **EMP** results
31. **Microwave weapons** - **HERF** (High Energy Radiofrequency) Weapons: Police in LA are testing a device to instantly halt fleeing cars (ProTech). **HERF’s** are a terrorist’s dream come true. Part of a larger group of weapons called **DEW** (Directed Energy Weapons). See **The Poor Man’s Ray Gun** by David Gunn. Can use magnetron from a microwave oven to make HERF weapon!!
32. **Nuclear EMP** = ‘**E-Bombs**’ American officials have been worrying - and dreaming - about the potential of EMP weapons since they unleashed **Test Shot Starfish** in 1962. The 1.4-megaton hydrogen blast 250 miles above Johnston Atoll in the mid-Pacific unintentionally knocked out radio communications and satellite equipment for thousands of miles around. Several countries are developing EMP Weapons – ‘E-Bombs’ – to destroy enemy electronic system.
33. EMP protection via **Faraday Cage**.