# Security Training & Awareness Materials:

# MICH'S GRAB-BAG

# M. E. Kabay, PhD, CISSP-ISSMP

Assoc. Prof. IA & Assoc. Chair of Computing Division of Business & Management Norwich University

Northfield, Vermont

<a href="http://www.mekabay.com">http://www.mekabay.com</a>

mailto:mekabay@gmail.com



Mich sends everyone the warmest greetings possible under the circumstances:



Sincere thanks to K Rudolph of Native Intelligence for running this slide show.

# Velcome

to my Web site!

# **PERMISSIONS:**

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- If you make extensive use of the materials, it is helpful to point others to the original source so they can also borrow stuff.
- ➤ However, please do NOT post copies of my materials on other Web sites – it is too difficult to keep multiple copies corrected.

<sup>\* &</sup>quot;Non-commercial" means you are not teaching for profit. Lectures for students, for employees or members within organizations or at conferences where lecturers are not paid are fine. Contact me for licensing arrangements for commercial uses such as courses for fees.



# M. E. Kabay, PhD, CISSP

Associate Professor of Information Assurance

Division of Business & Management

Contact info

Program Director, Master of Science in Information Assurance

Program Director, Bachelor of Science in Computer Security & Information

Assurance

Norwich University, Northfield VT, USA

 Home Page NEW TO THE WEB SITE:

Courses

 CV February 2005 -- Management of IA slides are up:

 Cyberwatch I am building and loading PowerPoint slides for Chapters 27-

54 of the Computer Security Handbook, 4th edition as part Ethics

 Security of the IS342 pages. New files added every few weeks.

Memt

November 2004 - Phishing: IYIR.

PowerPoint presentation for ISSA NE Chapter now available Methods

in Industry section. MSIA

NWF

November 2004 -- Security on a Budget: Ops Memt

PowerPoint presentation with associated audio in an MP3 file Opinion

are now available in the Security Management section. Overviews

Contact info

November 2004 -- IYIR database of abstracts now

available: Mich's Preferred

The source of the INFOSEC Year in Review reports is now Self-Image (shortly before coming to

online; currently holds more than 5,000 abstracts in an MS-

Norwich) (note nice shiny Access database available for download.

bald head and elegant graying beard):

http://http://www.mekabay.com







Links to Online Graduate Programs:

- OGP Portal
- MSIA Director's Corner
- MSIA Director's Corner Archives.
- MSIA Program Description

Norwich University offers the Master of Science in Information Assurance (MSIA), and 18-month online program starting each September and January. For full information, click here.

BELOW--In uniform as Major in Vermont Militia (a peculiar branch of the US Army reserved solely for fulltime faculty of Norwich University):

For some lectures on management from Seminar 2 of the MSIA, click here.

Description of the Bachelor of Science in Computer Security and Information Assurance (CIA) BSIA Program

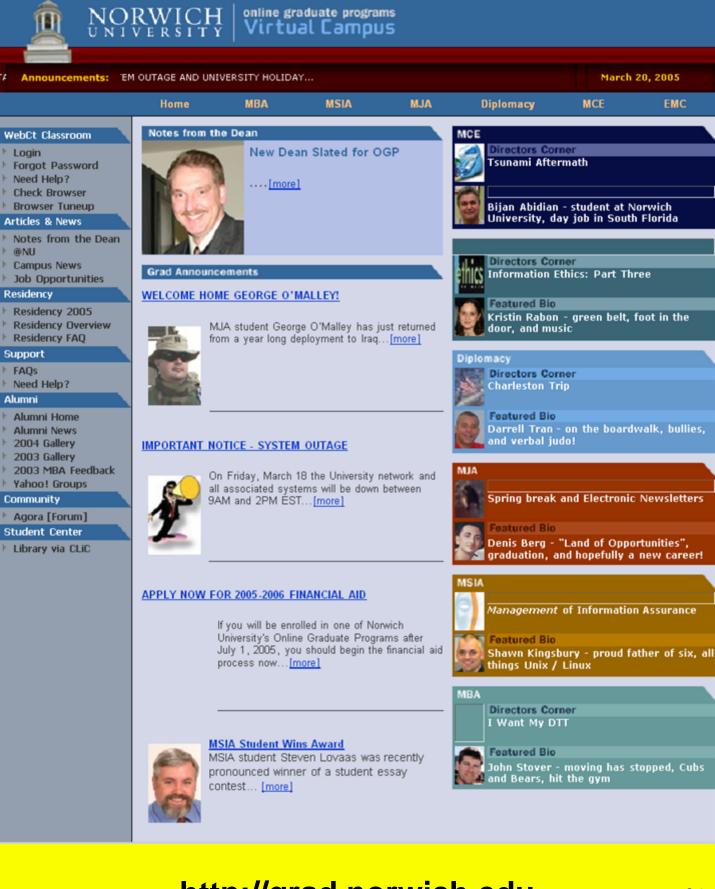
For information about the Norwich University Bachelor of Science in Computer Security and Information Assurance (BSIA) and the Minor in IA click here.

### DIRECTORY OF SECTIONS ON THIS SITE

#### Courses

This section includes industry courses and course materials for Norwich University students. Most course materials are available in HTML and Acrobat PDF formats. All students. teachers and others are welcome to use these course materials for free (but not for paid) industry or internal courses and lectures or for applications in colleges and universities





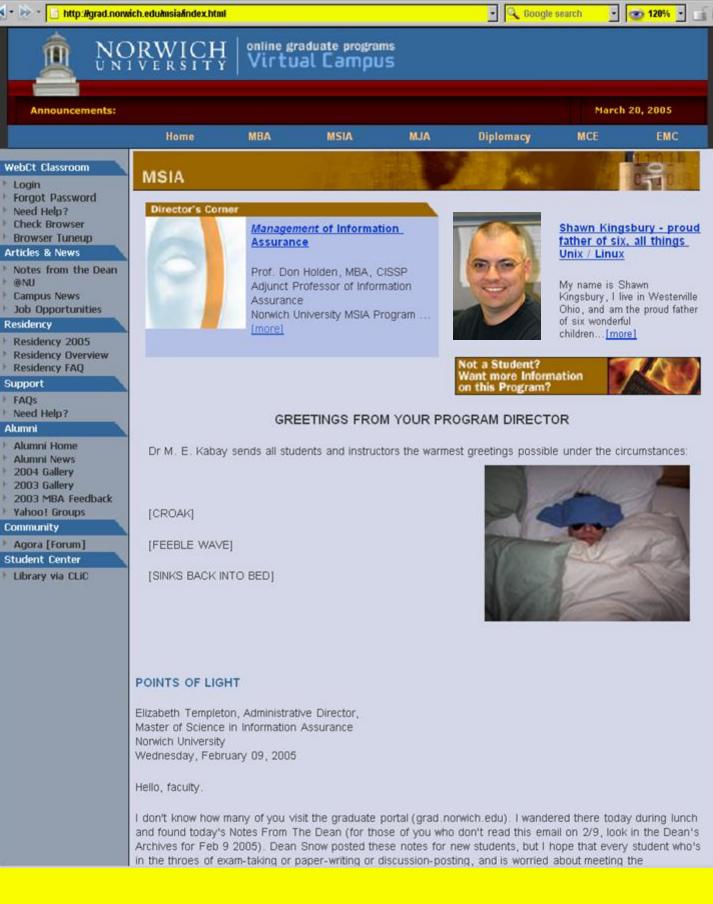
http://grad.norwich.edu/

# http://grad.norwich.edu



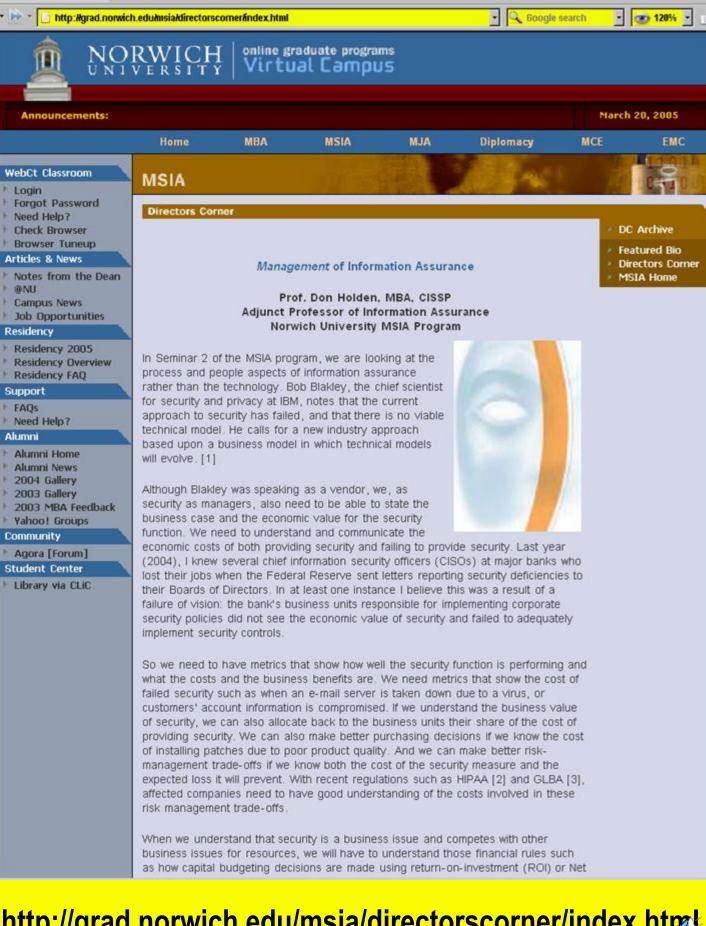
· 120% ·

Google search



# http://grad.norwich.edu/msia









# NORWICH online graduate programs



#### Online MSIA

MSIA Home Page

Why an Online MSIA

Why Norwich University?

Accreditation

Program Description

Tuition and Fees

Course Dynamics &

Getting Started

Admission

Calendar

Our Faculty

FAQ

Inquire Online

Apply Online

Online Grad Programs

#### Online Master of Science in Information Assurance

5 reasons why this is the right program for you:



Todav

1. Curriculum Taught by Dynamic, Industry-Leading Faculty

Information security is one of the fastest-growing areas in information technology management. Our coursework is cutting-edge and immediately relevant to your environment. Learn about threats and vulnerabilities, prevention at the technical and human levels, detection, response, and management aspects of security. Our faculty members are some of the most recognized and outstanding experts across the entire field of information assurance. Information assurance

education has immediate ROI's to employers and employees alike. You can become one of the well-paid managers with the education and experience you will earn in the Norwich Online MSIA, while at the same time providing significant and immediate returns to your employer. We bring a wealth of case studies and personal insights to the program and are committed to making the MSIA an exciting and relevant program.

#### 2. Online MSIA Degree in Less Than Two Years

Coursework in the MSIA Online Program takes you 18 months - not five years. Within two years of the time you start, you will finish the coursework and the twoweek residency, graduate, and become a member of a prolific alumni organization. Our proven pace and structure allows you to study at a pace that is manageable for most busy professionals. We know how to help you learn quickly and efficiently without sacrificing the academic integrity that you have come to expect from Norwich University.

#### 3. Convenient Online Distance Learning

Created with your busy schedule in mind, the online MSIA combines the quality of traditional master's degree programs with the ultimate flexibility of state-ofthe-art online distance learning. This online MSIA graduate program reduces significantly the constraints imposed by scheduled meeting times and specific classroom locations. The program is capped off with a two-week residency trip in June to Norwich University, located in the heart of the Green Mountains of Vermont.

4. A Fully Accredited Institution with a Long, Deep and Proud History

Norwich University is fully accredited by the New England Association of Schools and Colleges, Inc. (NEASC), a regional accrediting body. Regional accreditation is the highest form of accreditation that an institution can receive. Norwich University has a long, rich heritage and prolific alumni base. For over 185 years, Norwich University has been an innovator in education. Norwich is an institution you can trust and an institution of which you will be proud to be a part. The MSIA program will proudly continue in the tradition of Norwich University's standards of excellence. As our Mission Statement commits us to doing, we will ensure that our graduates can act as well as think about information assurance; that they will be able to execute the security measures that they conceive; and that they will indeed be useful citizens of this country and of the world in protecting society against breaches of information security.

5. Innovative Commitment to Working With Your Employer

Students in the Norwich University online MSIA bring immediate benefits to their employer as a direct result of their work in the program. All students have written commitment from their employers to allow non-invasive investigation of information security issues in their workplace. At the end of each of the six seminar periods, the students' findings are summarized in professional reports with recommendations that are submitted to a named individual in each student's workplace, More ...





designated Norwich University as a Center of Excellence in Information Assurance Education.



Mark Starry moves up at his company with a MSIA degree.

Read More



# **COURSES**

This section includes industry courses and course materials for Norwich University students. Most lectures are available in PowerPoint files; some other documents such as syllabuses are usually available as PDF files. All students, teachers and others are welcome to use these course materials for free courses and lectures. If you want to use this material in paid courses contact me by e-mail for permission to do so.

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- Ethics
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- Methods
- MSIA
- NWF
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# **Industry Courses**

The courses in this list were given in industry conferences. workshops, seminars and in-house training sessions.

## New Industry Courses in Courses/Industry section:

- Bugs. Flaws and Features
- Social Psychology and INFOSEC
- INFOSEC UPDATE 2002-03

# **University and College Courses**

The courses in this list were delivered to college and university students. This section includes courses given at Norwich University and accessible via the CLIC interface for students, staff and faculty.

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Updated 2005-03-01



#### **140**%

# INDUSTRY COURSES

The courses in this list were given in industry conferences, workshops, seminars and in-house training sessions.

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# Phishing -- November 2004

This lecture was delivered to the New England Chapter meeting of the Information Systems Security Association on 16 Nov 2004 at the Volpe Center in Cambridge, MA. It looks at the growing problem of fraudulent e-mail & Web scams that trick victims into revealing confidential information that can then be abused by criminals. PPT PDF

# Assessing and Auditing Internet Usage Policies -- April 2004

This lecture, delivered to the Institute of Internal Auditors meeting at Norwich University, looks at how one can evaluate policies for the appropriate use of e-mail and Web access in organizations of all types. There is a particularly intensive look at intellectual property issues in this presentation.

PPT PDF

#### INFOSEC UPDATE -- March 2002

This two-day workshop was held as a pre-conference review at the e-ProtectIT Conference organized at Norwich University, Northfield, VT. The notes were produced directly from the IYIR (INFOSEC Year in Review) database.

**PDF** 



# **ACADEMIC COURSES**

The courses in this list were delivered to college and university students. This section includes courses given at Norwich University and accessible via the CLIC interface for students, staff and faculty.

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# John Abbott College

I taught at John Abbott College (Ste Anne de Bellevue, QC) from 1986 through 1998 as an Adjunct Professor in the Continuing Education Department. We taught two accelerated programs in which I was involved: the JPC (John Abbott Programmers Course) and the TSP (Technical Support Program). For more information about John Abbott College click here.

## Norwich University

In the fall of 2001 I began teaching full time again; I am delighted to be back in academia after over 20 years in industry. Norwich is a predominantly military university (with a strong contingent of civilian students to keep the mixture bubbling) and full-time faculty wear a military uniform. For more information about Norwich click here.

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Updated 2005-03-01

#### •

# John Abbott Courses

I taught at JAC from 1986 through 1997 and enjoyed the program and the students immensely.

Here are three of the courses that I hope will be useful to others even today, a decade later.

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#### **Data Communications**

This short course introduces the basic concepts of this subject and has lots of diagrams and simulations that other instructors may find helpful when creating their own course materials.

### **Quality Assurance**

A three-day introduction to software QA.

#### The Art of Technical Support

This series of lectures looks at a wide range of topics that underly effective technical support delivery and management. The review questions were used for quizzes and exams.

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Updated 2004-04-05

# **∢** • 🔛 •

# **Data Communications**

A short introduction to basic concepts and terminology.

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- 02 Telephony PPT PDF
- 03 Basics of digital communications PPT PDF
- 04 Standard Interfaces & Transmission PPT PDF
- 05 Efficiency PPT PDF
- 06 Security PPT PDF
- 07 Architecture and protocols PPT PDF
- 08 Data transport PPT PDF
- 09 Network management PPT PDF
- 10 Digital telecommunications PPT PDF
- 11 Cyberspace PPT PDF

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# NORWICH UNIVERSITY COURSES

The courses in this list were delivered to college and university students. This section includes courses given at Norwich University and accessible via the CLIC interface for students, staff and faculty.

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# CJ 341 Cybercrime

This course looks at crime involving computers and networks. Emphasis is on the legal and forensic aspects of cybercrime. The course was taught in the Fall 2001 semester in the Criminal Justice Department.

# IS 130 Introduction to Computers and Programming

This course introduces basic programming concepts and supplements the textbook material with overviews of modern information technology applications and careers. This course was taught in the Fall 2001 semester of the Computer Information Systems Department by Professors Ronner and Kabay.

# IS 240 Introduction to Database Management Systems

This course introduces the concepts and terminology of DBMS (database management systems) using MS-ACCESS database tools. Students learn to use effective data analysis methods to devise database schemas, then implement their schemas by building live databases and related application functions such as queries, forms and reports.

### IS301 Software Engineering

This course presents a broad perspective on software engineering through the entire system development life cycle with special emphasis on systems requirements analysis and

# IS 340 Introduction to Information Security Assurance

This course is an overview of all aspects of information security today, including fundamental concepts and definitions, cybercrime techniques, malicious software, human factors, physical security, network and communications security, cryptography, law and policy and information warfare.

# IS 342 Management of Information Assurance

This course examines management aspects of information assurance, including standards for security products, policy guidelines, security awareness, ethical decision-making, employment practices and policies, operations security and production controls, e-mail and Internet use policies, working with law enforcement, using social psychology to implement security policies, and auditing computer security. The course includes sections on detection of security breaches, methods of remediation such as computer emergency quick-response teams, backups and archives, business continuity planning, disaster recovery planning and insurance. Students examine fundamentals of management responsibilities and liabilities and risk assessment methodologies. The course ends with a review of current hot topics in the field such as medical records security, censorship, privacy, and anonymity.

# IS 340A Introduction to Information Assurance

Fall 2004 semester M W F 09:00-09:50

Dewey 108

•	Home F	'age	Course	descri	ption
	Charles	A		The labour to th	

- Courses
- <u>CV</u> Description of the course including academic
- Cyberwatch requirements. (PDF)
- Ethics
- Security Syllabus

# Mgmt

- <u>IYIR</u> List of topics for each of the class meetings. (PDF)
- Methods
- MSIA Lecture notes
- NWF
- Opinion PowerPoint files with the class lecture notes. (PPT)
- Overviews
- Contact info

http://http://www.mekabay.com/courses/academic/norwich/is340/index.htm



# IS 340A -- Intro to IA -- Lectures

#### PowerPoint Files for Classroom Lectures

Home Page

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All files are PowerPoint presentations.

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Courses	TTD 1 TTD 4001
CV	UPDATED 2004
Cyberwatch	At Takes Leviller
Ethics	01 Introduction
Security Mgmt	On History 6, N. Gordon, of D. T. O. G. C.
IYIR	02 History & Mission of INFOSEC
<u>Methods</u>	02 Calconness Low & Computer Forencies
MSIA Files	03 Cyberspace Law & Computer Forensics
NWF	0.1 Toyonomy of Computer Security Incidents
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	08 Penetrating Computer Systems & Networks
	09 Malicious Software
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	15 E-Commerce Security
	16 Physical & Facilities Security (1)
http://http:/	/www.mekahay.com/courses/

nttp://nttp://www.mekapay.com/courses/ academic/norwich/is340/lectures.htm

18 Physical & Facilities Security (2) 19 Identification & Authentication 21 Operating System Security 22 LANs 23 Firewalls 24 Internet-visible Systems 25 Cryptography (1): Fundamentals 27 Cryptography (2): Stronger Algorithms & the PKC 28 Cryptography (3): PGP & GPG 29 Cryptography (4): PKI 30 Anti-Malware 31 Vulnerability Assessment and Intrusion Detection 35 Backups 36 Disaster Recovery Planning EXTRA from previous years: Ethics & Privacy Quality Assurance & Security

http://http://www.mekabay.com/courses/academic/norwich/is340/lectures.htm



# IS342 Management of IA -- Spring 2005

### Lecture Files including Homework.

These files are used in classroom lectures and also contain homework instructions. Chapter numbers refer to the *Computer Security Handbook*, 4th Edition (2002: Bosworth & Kabay, eds.; Wiley & Sons).

#### Back to IS342 Home Page

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Courses

<u>CV</u> Lecture 1 had no slides.

Cyberwatch

**Overviews** 

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Ethics 2: Ch 27 -- Standards for Security Products

Security Mgmt

IYIR 3: Ch 28 -- Security Policy Guidelines

Methods
MSIA 4: Ch 29 -- Security Awareness

MSIA 4: Cli 29 -- Security Awareness
NWF

Opinion 5: Ch 30 -- Ethical Decision Making and High Technology

6: Ch 31 -- Employment Practices and Policies

7: Ch 32 -- Operations Security and Production Controls

8: Ch 33 -- E-mail and Internet Use Policies

9: Ch 34 -- Working with Law Enforcement

10: Ch 35 -- Using Social Psychology to Implement Security Policies

11: Ch 36 -- Auditing Computer Security

12: Ch 37 -- Vulnerability Assessment and Intrusion Detection Systems

http://http://www.mekabay.com/courses/academic/norwich/is342/Lectures/index.htm



- 13: Ch 38 -- Monitoring and Control Systems
- 14: Ch 39 -- Application Controls
- 15: Ch 40 -- Computer Emergency Quick-Response Teams
- 16: Ch 41 -- Data Backups and Archives
- 17: Ch 42 -- Business Continuity Planning
- 18: Ch 43 -- Disaster Recovery
- 19: Ch 44 -- Insurance Relief
- 20: Ch 45 -- Management Responsibilities and Liabilities
- 21: Ch 46 -- Developing Security Policies
- 22: Ch 47 -- Risk Assessment and Risk Management
- 23: Ch 48 -- Y2K: Lessons Learned for Computer Security
- 24: Ch 49 -- Medical Records Security
- 25: Ch 50 -- Using Encryption Internationally
- 26: Ch 51 -- Censorship and Content Filtering
- 26: Ch 52 -- Privacy
- 27: Ch 53 -- Anonymity and Identity in Cyberspace
- 28: Ch 54 -- The Future of Information Security

# Cyberwatch

Practical advice for novices and families on protecting themselves and their children against harm on the Internet.

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Cyber-Safety for Everyone: from Kids to Elders. (PDF)

This booklet was distributed to everyone at Norwich University in August 2002. It includes all of the above articles in updated form plus additional material. Everyone is welcome to download this PDF file and print the pages for non-commercial use.

Individual Topics From An Earlier Series of Articles

Pedophiles on the Internet

Online Dating and Cybersex

**Hate Groups** 

Pornography Online

Bad Information from the Web and the 'Net

Hoaxes and Myths Online

Virus Hoaxes

Threats to You and to Others

Malicious Software

Junk E-mail

Chain Letters and Ponzi Schemes

Get Rich Quick? Not likely.

Don't Steal Software, Music and Video

Plagiarism Online

Criminal Hacking and Your Kids

# **Ethics**

Papers discussing ethical principles applied to the use of computers and communications technology.

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#### Hackers are Enemies HTML PDF

Don't believe people who make unauthorized access into a game.

### Making Ethical Decisions HTML PDF

How do adults and children learn to figure out what makes ethical sense when confronted with complicated questions? This primer teaches people simple principles for thinking about ethics.

### Napster Cantata HTML PDF

Wondering if you are doing the right thing by making copies of CDs, records and DVDs? Here's some straight talk about intellectual property theft.

# Totem and Taboo in Cyberspace: Integrating Technology into our Moral Universe HTML PDF

This is a more serious paper for adults (although kids are welcome to read it too) explaining the importance of establishing normative values to govern the use of computers and communication technology.

# Why Kids Shouldn't Be Criminal Hackers HTML PDF

For children, teachers and parents who are interested in understanding how criminal hackers are lying to kids by claiming their illegal activities are harmless.



# INFOSEC MANAGEMENT

This section includes papers from a variety of sources that bear on the management of information security.

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#### Video Reviews

The video reviews include page-long summaries and evaluations of some excellent awarness and training films available on VHS and DVD.

#### E-mail security HTML PDF

Entitled, "E-Mail and the Internet: Unexpected Security Risks," this short (2-page) 1995 paper explains to managers what they ought to be thinking about as they implement corporate e-mail through the Internet.

### Implementing Computer Security HTML PDF

Subitled, "If Not Now, When?" this little paper reviews key threats to information and urges managers not to wait in developing and implementing security policies.

# Securing Your Business in the Age of the Internet HTML PDF

Five pages this time to convince your bosses to pay attention to INFOSEC.

#### Security on a Budget PDF PPT MP3

A~40-minute lecture on the key elements of managing information security effectively. Delivered via Vermont Interactive Television to an audience in Germany at a conference sponsored by Network World Deutschland in December 2002.. If you would like to hear the lecture as well as see the slides, you can download the MP3 file (~8MB) and move through the slideshow as you listen to the sound. The first 7.5 minutes are in German, so you can skip ahead if you want to start with the English section.

# Social Psychology and INFOSEC: Psycho-Social Factors in the Implementation of Information Security Policy. HTML PDF PPT

This paper was first delivered at the 16th National Computer Security Conference in 1993, where it was accorded one of the two Best Paper awards. This version has been updated and was published as Chapter 35 of the <u>Computer Security Handbook</u>, 4th Edition.

# Stopping Chain Letters and Hoaxes on the Internet HTM PDF

This was originally a response to a friend who kept sending jokes, frightening rumors and virus hoaxes to everyone she knew with instructions to send the jokes, frightening rumors and virus hoaxes to everyone they knew and so on ad nauseam. Now return to the beginning of this description and read it again. And again. And

# What's Important for Information Security: A Manager's Guide HTML PDF

Yet another attempt to reach managers who are not interested in security.

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The opinions expressed in any of the writings on this Web site represent the author's opinions and do not necessarily represent the opinions or positions of his employers, associates, colleagues, students, relatives, friends, or cats.



# INFOSEC YEAR IN REVIEW

This project started in 1995 when I was asked to prepare an update for graduates of the information security courses I taught at the Institute for Government Informatics Professionals under the aegis of the University of Ottawa. I keep a database of interesting or significant events in INFOSEC, create or use (with permission) an abstract of the issue, add keywords, classify the case according to a typology that has been evolving over the years and then publish a report every year to help anyone interested in locating key developments across the field of information security.

The database of abstracts is available as a MS-Access .MDB file and in compressed form as a WinZIP file.

The reports are available in Acrobat PDF. The codes file shows how the incidents are organized.

Starting in 2004, a team of students began helping me with the data collection with research funds drawn from the MSIA program. These students include team leader Karthik Raman and members Krenar Komoni and Irfan Sehic.

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YEARLY REPORTS (PDF):

2003 2002 2001 2000

<u>1999 1998 1997 1996 1995</u>

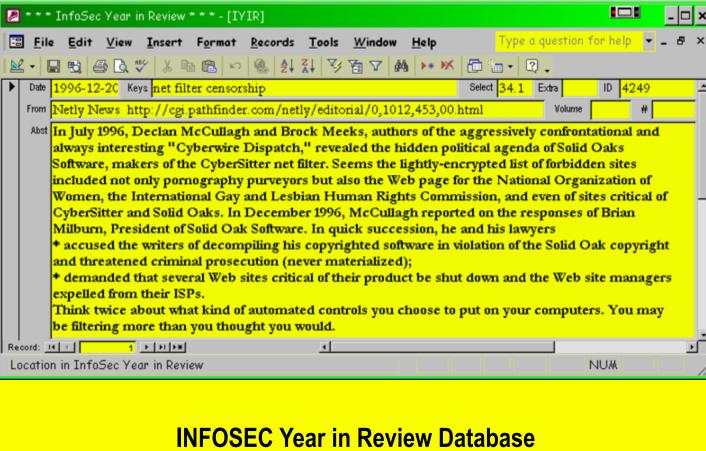
MS-Access Database Abstracts (as of 2004-10-31):

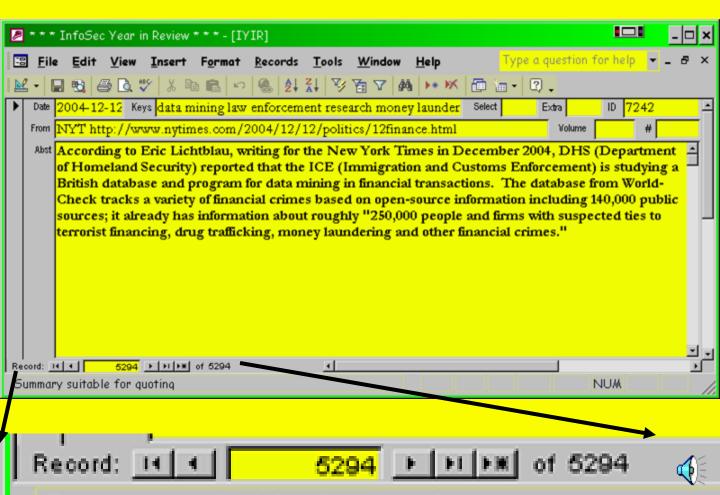
Database (.MDB) 8 MB

Database (.MDB in .ZIP) 2.5 MB

Codes ONLY (taxonomy)







# **METHODOLOGY**

Methods for analyzing non-quantitative data, understanding crime statistics, and others.

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#### Brute-Force Cracking Estimation XLS

This little spreadsheet lets you enter the number of positions in a key, the number of values per position, and the number and speed of processors attacking the keyspace. It computes the maximum time required for brute-force cracking of the entire keyspace measured in seconds, hours, days, years or universe-lifetimes.

### CATA: Computer-Aided Thematic Analysis (TM) PDF HTML

An easy method using a spreadsheet to isolate facts, ideas, opinions and feelings into *themes* and then organize these themes into a coherent structure without having to impose an extrinsic framework on them. Useful for all students and researchers.

For a guided tour of the method with voice commentary, click here to download a PPT (PowerPoint) file with narrated slides (~7 MB) and then play the slide show (press F5) with your computer sound enabled.

If you prefer, you can download the same PPT file compressed into a WinZIP file (~3 MB) by clicking here.

# Organizing and Safeguarding Information on Disk PDF HTML

How can you organize information on your hard disk and on your desktop for easy retrieval? What are some easy steps you can take to safeguard your precious information against accidents? This paper has lots of screen shots to illustrate simple principles that can help you manage your computer files and programs.



# Instructional Files from the MSIA

These files were created over many years for various courses by M. E. Kabay, PhD, CISSP and adapted for use in the Master of Science in Information Assurance by adding narration.

The lectures are part of Seminar 2 in the MSIA Program.

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NWF

Courses These narrated PowerPoint files are compressed using WinZIP to save download time: open with WinZIP and

CV run the PPT files as slide shows with sound enabled.

Cyberwatch Organizational Psychology lectures:

Complete lecture in ZIP file (15.7 MB) **Ethics** 

For those with slower connections:

Security Mgmt Part 1 (Social dynamics, locus of control) (2.5 MB)

Part 2 (Attribution theory) (1.9 MB)

**IYIR** Part 3 (Social cognition) (2.8 MB)

Part 4 (Errors of judgement, beliefs & attitudes) (.8 MB) Methods

Part 5 (Prejudice, conformity, compliance, obedience)

(2.9 MB)

MSIA Part 6 (Social loafing, polarization, groupthink) (1.4 MB)

Part 7 (Personality types & adaptation) (4.2 MB)

Management Skills: Opinion

Complete lecture in ZIP file (12.7 MB)

Overviews For those with slower connections:

Part 1 (Management styles -- Hawthorne Effect, Theories Contact info

X, Y, Z; Maslow's hierarchy of needs) (2.5 MB)

Part 2 (Good management style) (6.1 MB)

Part 3 (Creating & maintaining a good team) (4.4 MB)

#### Leadership:

Complete lecture in ZIP file (24.9 MB)

For those with slower connections:

Part 1 (Infrastructure for good meetings) (2.7 MB)

Part 2 (Ground rules for meetings) (6.4 MB)

Part 3 (Presenting information effectively) (3.4 MB)

Part 4 (Presenting information -- cont'd) (3.4 MB)

<u>Part 5</u> (Analytical tools: Real-Time Notes, brainstorming, Computer-Aided Consensus, Post-It Cluster Analysis,) (5.6 MB)

Part 6 (Analysis cont'd: Functional-Matrix Analysis, Computer-Aided Thematic Analysis) (3.8 MB)

The following two lectures are small enough not to have to be subdivided.

Working with Vendors (5.5 MB)

Solving Problems (4.5 MB)

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# Security

#### Stealth mode utilities, Part 2

03/17/05

In my last column, I described the "privacy" software I came across. It includes stealth capabilities to conceal the presence and operation of the program from system ...

#### Stealth mode utilities, Part 1

03/15/05

Some years ago I was looking at privacy-protection software and ran across an interesting note on the Web page of a particular product (the specific product is not the ...

# Monty Python alum promotes data backups 03/10/05

My friends know that I am a fanatic about Monty Python; indeed, just before writing this article I showed another in the original Monty Python series at the ...

#### Understand the business case for security

03/08/05

My friend and colleague Don Holden, adjunct professor of information assurance in the MSIA Program at Norwich University, is also an experienced security ...

# An unwanted RAID conversion

03/03/05

In the past months, I have been having a terrible time with my Compaq Presario 8000T computer.

#### USB flash drives spreading like mushrooms

03/01/05

In recent articles, I've looked at how USB flash drives with biometric authentication and access controls can be helpful in a range of applications. But what if ...

#### Applications of biometric flash drives

02/24/05

In my last article, I described the ClipDrive Bio, a family of USB flash drives with an

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M. E. Kabay, Ph.D., CISSP, is Associate Professor of Information Assurance at Norwich University in Northfield, Vt. Mich can be reached by <u>e-mail</u> and his Web site.

For information about Norwich's 18-month online graduate program in information assurance management, visit this site.

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### Prisoner Abuse: The Blame Game

Is it reasonable to fix blame for abuse of Iraqi and Afghani prisoners soley on individual soldiers?

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# Time for Industry to Support

# Academic INFOSEC:

Why industry should band together to sponsor supplementary salaries for information security professors (a self-serving opinion if I ever saw one).

HTML PDF

http://http://www.mekabay.com/opinion/index.htm



# **OVERVIEWS:** WHITE PAPERS

These are introductions to or overviews of various topics in information technology and especially information security.

#### Home Page Computer Security Handbook, 4th Edition.

- Courses
- CV Bosworth, Sy & M. E. Kabay (2002), eds. Wiley.
- Cyberwatch ISBN 0-471-41258-9. 1184 pp. Index.
- Ethics
- Security Anonymity and Pseudonymity in Cyberspace HTML

Mgmt

- IYIR.
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This scholarly paper was presented at the 1998 Annual

Conference of EICAR, the European Institute for

Computer Antivirus Research. The abstract begins as

follows:

The growth of the Internet has increased the use of

anonymity and pseudonymity in electronic

communications. How can Internet users preserve the benefits of privacy while fighting the abuses of a few anonymous and pseudonymous people? In the real world, identity resides in the ways that an individual is recognised and held responsible for her actions; in cyberspace, identity is potentially just a user-ID. Social psychologists have found that anonymity can contribute to deindividuation -- a state of loss of selfawareness, lowered social inhibitions, and increased impulsivity.

# Careers in information security HTML PDF

This paper started as a response to a student who asked me about how to get into security as a profession.

# Eternity in Cyberspace HTML PDF

This paper reviews some of the practical measures to take to ensure that archived digital information will continue to be available despite rapid technological changes in information technology.

# Information Security Resources for Professional Development PDF

This paper answers questions from readers, students and educators and provides extensive hyperlinks to information security resources online as well as lists of suggested readings for beginners and more advanced learners.

# Information Warfare (1995) HTML PDF

This is a chapter from my 1996 textbook, *The NCSA Guide to Enterprise Security*. The chapter is dated but still useful as an overview of the issues surrounding the use and targeting of information systems and telecommunications in warfare.

# Medical Informatics Security HTML PDF

Information assurance in the health-care field has particular problems. This overview discusses some of the issues and possible solutions.



# A Primer on Public Key Infrastructure (2004) HTML PDF

A brief look at the public key cryptosystem and the infrastructure that allows public keys to be bound with confidence to particular people (or organizations or machines). Particularly helpful for people who are new to PGP or other digital signature systems and who are a bit fuzzy on just why people are refusing to sign their public key through e-mail communications alone.

# Programming for Security (2004) HTML PDF

This article reviews some simple principles for avoiding obvious security blunders when designing and writing programs.

# Using PGP <u>PPT</u>

This narrated PowerPoint presentation is an extract from a lecture in the MSIA course. It reviews how PGP is used for digital signatures and encryption and also walks through creating a PGP keypair. Once you download and open the file, press function key 5 (F5) to start the narrated show.

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