

# **CURRICULUM VITAE**

## **BRIAN LEWIS**

### **PERSONAL**

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*Nationality:* British

*Family Status:* Married

*Languages:* English mother tongue, Fluent German, Rusty French

*Education:* 1981-1983, Webster University, Vienna (MA in Management)  
1965-1967, City University, London, England (Mathematics)  
1963-1965, Bath University, Bath, England (Mathematics & Computing)

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## **1 SUMMARY OF QUALIFICATIONS & EXPERIENCE**

- Good knowledge of all aspects of Information Technology.
- Over thirty years experience in managing the regular functions of information technology services, including information systems development & maintenance, systems operations and budgetary and personnel matters, and in getting staff to perform effectively.
- Successful career as University Lecturer and IT Department Head.
- Ability to generate ideas, to design and plan their introduction and to manage the change involved, including recruiting exceptional people and directing, motivating and delegating to them.
- Knowledge of the latest advances and future developments in Information Technology.
- Ability to communicate - with senior corporate management in visual, oral and written form; with users at the management and working level in business terms; with staff in technical matters; with suppliers of hardware and software in terms of markets and products; with students at both graduate and undergraduate levels.
- Extensive experience in financial, personnel and capacity management and in selecting and procuring hardware and software.
- Experience in planning and implementing high-cost technology projects, especially those involving telecommunications networks and office automation.
- Good track record of managing the development and use of man-machine applications, including rescuing several projects from disaster and working long hours when necessary.
- Expertise in modern analysis and design of information systems and in the delivery of reliable, maintainable, user-friendly applications software.
- Knowledge of modern mainframe and PC hardware, telecommunications networks and fourth generation software.
- Extensive practical experience in systems analysis, systems design and programming using a wide range of software on PCs, servers and mainframes.
- Good knowledge of the Computer Industry - vendors, products, markets and trends, with a proven ability to negotiate with vendors and obtain favourable terms.

## **2 CAREER 1997 to present**

### **2000 to present Information Technology Consultant, Accony.com, Austria and Ireland.**

#### *Responsibilities:*

- Advise management on in-house and out-sourced information technology services.
- Conduct strategic IT planning.
- Carry out high-level and detailed systems analysis and design of information systems.
- Train staff, users and managers on business aspects of IT.
- Project Management.
- Teach undergraduate and graduate Information Technology courses.

### **2000 to 2011 Information Technology Department Head, Webster University, Vienna, Austria.**

#### *Responsibilities:*

- Advise and assist students in planning and carrying out their studies.
- Coordinate faculty teaching requirements and resources.
- Recruit faculty.
- Assist Academic Director in scheduling courses and assigning instructors.
- Propose hardware and software budgets for teaching purposes.
- Review and approve syllabi.

### **1997 to 2000 Senior Information Technology Officer, Division of Safeguards Information Technology, Department of Safeguards, International Atomic Energy Agency, Vienna, Austria.**

#### *Responsibilities:*

- Strategic planning of IT for the Department of Safeguards [500 professional staff].
- Develop and implement a methodology and standards for systems development within the department.
- Carry out information management for the department.
- Act as Secretary to the Information Processing and Technology Committee, which reviews all requests for hardware, software and systems development within the department.
- Develop IT service standards and establish user service agreements consistent with these standards.
- Develop PC and Laptop standard configurations for the department.
- Serve as divisional Training Officer.
- Formulate annual work plans, budgets and financial plans for the division [80 staff + \$6 million].

#### *Achievements:*

- Prepared a Strategic Plan for IT to meet Safeguards objectives for the next 10 years.
- Established systems development standards coupled with a database portfolio of applications systems – existing or awaiting development – both of which are now in use.
- Reviewed the quality, effectiveness and timeliness of the division's services and made recommendations for improvement.

Grade: P5 Step 13 (salary data available on request)

### **3 TEACHING EXPERIENCE**

Since 1984 Adjunct Professor of the Computer Science Faculty of the Vienna campus of Webster University, St. Louis, USA. Additional responsibility as Information Technology Department Head. Experience preparing and teaching the following graduate and undergraduate courses. Particularly worthy of mention are the practical nature of several courses. For example, on one course, students developed, under guidance, an automated Library System which was adopted for everyday use at the University. The students, who had no prior experience of computers, learned and concurrently applied: concepts, techniques and methods of Systems Analysis, Systems Design and Systems Implementation in order to develop the system on a project. On another course, students developed a system for ordering textbooks using modern software tools. Graduate students on one Business Information Systems course analysed and designed a system to allow students to register for courses online. Undergraduate students on a recent course analysed, designed and then subsequently developed on further courses a Decision Support System to assist the university in scheduling courses.

#### **COURSES TAUGHT CURRENTLY AND RECENTLY**

##### INTRODUCTION TO INFORMATION PROCESSING & EMERGING TECHNOLOGIES

Undergraduate introductory courses to Information Systems and Information Technology.

##### SYSTEMS ANALYSIS AND DESIGN

This undergraduate course introduces the basic principles of systems analysis and design. Includes feasibility studies, cost/benefit analysis, requirements analysis, decision analysis, data and process modelling and project management, as well as the various tools, techniques and methodologies used in systems analysis and design.

##### IT PROJECT MANAGEMENT

This undergraduate course provides an integrated view of project management as applied to IT projects. The course covers concepts and skills that are used by IT managers to propose, plan, secure resources, budget and lead IT project teams to a successful completion.

##### MANAGEMENT INFORMATION SYSTEMS

This undergraduate course focuses on the role information systems play in modern business by capturing management data and enhancing management decision-making across the enterprise. The course covers the organisational foundations of systems and the technical foundations of information systems, their strategic role and the organisational and management changes driving electronic commerce, electronic business and digital firms.

##### BUSINESS INFORMATION SYSTEMS

MBA course covering the principles of Information Technology, with emphasis on E-Commerce using case studies. Students are required to analyse a real-life application and propose improvements.

#### **COURSES TAUGHT IN THE PAST**

##### INFORMATION SYSTEMS I & II

These undergraduate courses focus on the needs a business has for computer systems, covering advanced systems analysis & design, such as Computer Aided Software Engineering *etc.* Includes equipment evaluation and selection, data communications and database management systems. Treats the subject from a theoretical as well as a practical aspect, the latter by hands-on analysis and design of a business application, and subsequent implementation of the system in MS Access.

##### DATABASE CONCEPTS

Undergraduate course on the principles and fundamentals of Database Management Systems.

##### DATABASE APPLICATIONS

Builds upon the previous course using a class project to develop a live database system.

##### EXPERT SYSTEMS

Undergraduate course on knowledge representation and problem solving using rule-based systems.

##### DECISION SUPPORT AND EXECUTIVE INFORMATION SYSTEMS

Covers the need organizations have for presenting information to managers and executives in a meaningful manner and in a very easy-to-use fashion, enabling the user to get the needed information, from whatever source, quickly. Presents the fundamental differences between DSS, EIS and MIS [Management Information Systems]. A major part of the course is a student project to develop an EIS.

CONTEMPORARY DEVELOPMENTS IN INFORMATION TECHNOLOGY

This graduate course covers such topics as electronic publishing and printing, electronic mail, factory automation, expert systems, local networks, telecommunications, strategic and competitive uses of computers, videotext/teletext, electronic funds transfer, personal computers, end user computing, software packages, photocomposition, computer aided translation and instruction, optical fibres, optical discs, microfilm, satellites, computer/teleconferencing, cellular radio, voice mail and PBXs.

COMPUTER RESOURCES MANAGEMENT

Graduate course providing an introduction to computers, elements of information systems and computer programming for business purposes. Topics covered include the history of computing, characteristics of current hardware and software, basic concepts in the design and use of databases and information storage and retrieval. The student is introduced to a computer language and develops a simple program by hands-on use.

MANAGING COMPUTER SYSTEMS

Graduate course covering topics such as decision-making, planning, financing methods, acquiring computer services, steering committees, project management, systems development and maintenance, security, privacy and audit, social issues, centralization/decentralization, organizational power and change, charging of computer services, cost/benefit analysis, data processing stages of evolution, decision support systems, management information systems, transaction processing systems, database management and distributed data processing systems, the data processing department and the relative involvement of top, user and DP management.

COMPUTERS IN BUSINESS

This is an introductory course for undergraduates in computer studies with an emphasis on business applications.

**4 SOFTWARE SKILLS**

<u>Software</u>	<u>Skill Level</u>	<u>Last used</u>	<u>Software</u>	<u>Skill Level</u>	<u>Last used</u>
MS Access	advanced	current	MS Project	medium	current
MS Excel	advanced	current	PL/1	advanced	1980
SQL	advanced	current	Visual Basic	basic	1995
HTML	basic	current	Fortran	advanced	1975
MS Visio	medium	current	System Architect	medium	2000

**5 PROFESSIONAL SOCIETIES**

Member, Association for Computing Machinery (USA)  
 Member, Society for Data Processing (Austria)

**6 REFERENCES**

William Fulton, Former Academic Director, Webster University Vienna, Berchtoldgasse 1, A-1220 Vienna, Austria (email: fulton@webster.edu)

Derek McLachlan, Former Head, Systems Development Section, International Atomic Energy Agency, A-1400 Vienna (email: pdmclachlan@gmail.com)

John P. Abbadessa, Financial Consultant, 6900 Old Gate Lane, Rockville, Md 20852, USA

James Gillcrist, IT Manager, 99 Preservation Way, South County Commons, Wakefield, RI 02879, USA

## 7 **PUBLISHED PAPERS**

Lewis B. & Nagai T., *A Progress Report on the IAEA Coordinated Research Programme on the Intercomparison of Computer-Assisted Scintigraphic Techniques* (invited paper). Proceedings of the 3rd International Conference on Data Handling and Image Processing in Scintigraphy, Massachusetts Institute of Technology, 1973.

Lewis B. & Nagai T., *IAEA Coordinated Research Programme on the Intercomparison of Computer-Assisted Scintigraphy Techniques*. Proceedings, Medical Radioisotope Scintigraphy 1972 Vol. I, Monte Carlo, 1972.

Nagai T. & Lewis B., *The IAEA Coordinated Research Programme on the Intercomparison of Computer-Assisted Scintigraphic Techniques* (invited paper). Proceedings of the Second European Meeting on Data Handling and Image Processing in Scintigraphy, Hanover, 6-8 October 1971.

Nagai T. & Lewis B., *IAEA Activities Relating to the use of Computers for Intercomparison of Scintigraphic Techniques* (invited paper). First Biennial Conference on Quantitative Organ Visualization, Miami 1970.

Tsialas S. & Lewis B., *A Computer Program for Evaluating the Performance of Focused Collimators*. International Journal of Applied Radiation and Isotopes, 1970 Vol. 21.

Lewis B., *Strategic Planning of Information Systems in the IAEA*, (IAEA internal paper), June 1985.

Lewis B. and Millar A., *Impacts of Technology on the Workplace and Human Resources in the IAEA*, (IAEA internal paper), August 1986.

Lewis B., *Working Paper on Telecommunications Planning in the IAEA*, (IAEA internal paper), January 1987.

McLachlan D. et al, *Office Automation Strategy*, (IAEA internal paper), November 1987.

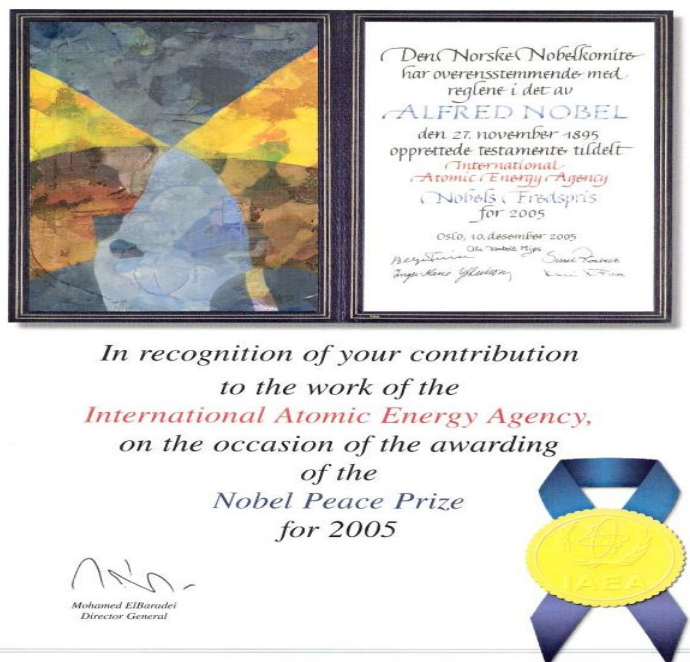
Lewis B. and Dragulev V., *Decentralization of Computing in the Agency*, (IAEA internal paper), October 1989.

Lewis B., *Software Developments*, (IAEA Executive Management Seminar), November 1989.

*The IAEA Database Directory*, (UN publication), November 1991.

## 8 **AWARDS**

- The International Atomic Energy Agency and its staff received the 2005 Nobel Peace Prize.



- Received the 2011 Excellence in Teaching Award from Webster University Vienna

## **9 CAREER 1965 to 1997**

### **1992 to 1997**

**Project Manager, Safeguards Management Information System,**  
Department of Safeguards, International Atomic Energy Agency, Vienna,  
Austria.

#### *Responsibilities:*

- Lead the development of the Management Information System for the Department of Safeguards.
- Strategic planning of Safeguards Management Information in the context of distributed information processing.
- Simplify and integrate existing management information systems, while at the same time providing a direct access capability for managers to safeguard databases.

#### *Achievements:*

- Recruitment of project staff; acquisition of hardware and software, including presentations to Member States and management to obtain funding and negotiations with vendors to obtain favourable terms.
- Strategic planning of systems to meet long-term needs of the Department for management information.
- Evaluation of various designs for migration of applications from a mainframe to a Client/Server environment.
- Development of a Decision Support System, currently in use by over 100 managers, by prototyping several increasingly enhanced versions of the software. The DSS provides a uniform user-friendly means for users to obtain interactive, on-line access to management information relating to containing financial, personnel, equipment, inspection, travel and meetings data, as well as strategic plans and reference documents. The data are stored in a multitude of databases on different hardware and software platforms.

### **1991**

**Information Management Officer,**  
International Atomic Energy Agency, Vienna, Austria.

#### *Responsibilities:*

- Review and coordinate the information needs of the Agency business areas, developing information models and proposing systems for development.
- Develop and propose Information policy and recommend supporting plans.
- Coordinate and assess the need for global, or common, information systems within the Agency, particularly those supporting decision making and senior management.
- Strategic Planning of Information Technology for the different Programme areas of the Agency.

#### *Achievements:*

- Managed the development of a prototype system for accessing multiple operational programme databases in various file formats to provide a perspective of the Agency's activities in a particular country.
- Reviewed the current Strategic Information System Plan, assessed the needs for strategic information and made recommendations to management.
- Managed the publication of the IAEA Database Directory classifying over 100 Agency databases.

### **1989 to 1991**

**Head, Computer Users Support Section,**  
International Atomic Energy Agency, Vienna, Austria.

#### *Responsibilities:*

- Strategic, tactical and operational planning of information technology in the areas of computerized information systems, telecommunications, online databases, electronic publishing and office automation.
- Selection of, and negotiation with suppliers of hardware, software, services and contract staff.
- Policy development and recommendation to the Computer Management Committee.
- Represent Computer Services as Member on the Computer Management Committee;
- Advise management on technological developments and trends;
- Develop organizational strategies and policy proposals on Information Technology;
- Negotiate with user management on future service requirements and funding;
- Analyse computer and communications industry markets, products and suppliers;
- Direct a Section of 51 staff (41 regular and 10 contractors) performing the functions of:
  - *Systems Analysis, Systems Design and Programming;*

- *Financial Budgeting and Personnel Planning;*
- *Database Administration and Office Automation;*
- *Network Design and Administration;*
- *Applications, Service, Resource and Capacity Planning;*
- *Project Management and Service Reporting;*
- *Training, Help Centre and End User Support;*
- *Hardware & Software Planning and Acquisition;*
- *Income Forecasting, Expenditure Control and Chargeback;*

Achievements:

- Initiation of project to downsize present mainframe setup to a distributed computing environment.
- Wrote Policy papers on decentralization.
- Improvement of Information and Training Programmes for computer staff and staff-at-large.

**1987 to 1989**

**Head, Information Systems Unit,**

Computer Section, International Atomic Energy Agency.

Responsibilities:

- Management of staff developing and maintaining computer systems and providing technical support to applications in these areas.
- Negotiation with suppliers of computer equipment.
- Policy development and recommendation.
- Represent the Computer Section as its Member on the Computer Management Committee.
- Evaluate technological developments and trends, develop organizational strategies for information technology and make policy recommendations to senior management.
- Negotiate with user management on future service requirements and funding.
- Analyse computer and communications industry markets & products, select and negotiate with suppliers.
- Approve feasibility studies and systems proposals.
- Approve plans for applications, staff, equipment and financing.
- Approve designs for network, database and office systems.
- Review and adjust the implementation of work plans.
- Review important systems development projects.
- Direct 35 staff carrying out the functions of:
  - *Systems analysis, systems design and programming;*
  - *Financial budgeting and personnel planning;*
  - *Network design and administration;*
  - *Applications, service resource and capacity planning;*
  - *Training, end user support and project management;*
  - *Equipment planning and acquisition;*
  - *Income forecasting, expenditure control and chargeback.*

Achievements:

- Implementation of Local Area Networks (IBM Token Ring & 3Com) and IBM's Cabling System.
- Negotiation with brokers, finance companies and equipment suppliers on acquiring mainframe and office hardware, software and services at a saving of \$500 000.
- Evaluation and budgeting of Computer Aided Software Engineering products.
- Development of Network architecture design guidelines.
- Prototype Personnel Inquiry system using SQL, QBE & DB2.
- User management seminars on the benefits and dangers of End User Computing.
- Pilot studies on Desktop Publishing and Computer Conferencing.
- Databases on personal computers and CDs for dissemination of nuclear information to Member States.
- Financial planning of budgets, income and user charges through 1993 to cover several scenarios, including contingency for a 10 % reduction in income.
- Development of decentralization/departmental computing policies.
- Strategic Information Systems Planning.

## **1985 - 1987**

### **Head, Planning and Control Unit,** Computer Section, International Atomic Energy Agency.

#### Responsibilities:

- Strategic, tactical and operational planning of information technology in the areas of computers, telecommunications, electronic publishing, office automation for the Agency.
- Administrative, budgetary, financial and personnel management for the Computer Section.
- Deputy to Section Head.
- Supervising 8 staff carrying out the planning functions of the succeeding position.

#### Achievements:

- Development, presentation and management approval of framework for strategic planning of information technology;
- Detailed analysis of technological developments, identification of those potentially beneficial to the Agency, analysis of their feasibility from technical, economic and organizational aspects, and subsequent education of top management;
- Direction of policy development for Personal Computers and Office Automation;
- Launch of Office Automation Strategy for 1986 - 1990;
- Development, proposal and management approval of Telecommunications Strategy, embracing local and wide area networks and cabling system;
- Writing long-range plan for the impacts of Information Technology on the Agency;
- Updating of staff skills, and the hardware, software and communications environment.

## **1980 to 1985**

### **Head, Management Information Systems Unit,** Computer Section, International Atomic Energy Agency.

#### Responsibilities:

- Manager of 28 staff performing information and office systems development and maintenance.
- Plan and implement office automation.
- Long-range planning of users' requirements.
- Supervise:
  - *Applications software development;*
  - *Data base administration;*
  - *Computer education and training;*
  - *Applications systems production and maintenance;*
  - *Office automation support;*
  - *Information centre services and technical support for end-user computing;*
  - *Contract programming;*
  - *Data entry;*
  - *Pricing and chargeback of computer services.*

#### Achievements:

- Successful recruitment and motivation of staff.
- Development of a Decision Support System for top management.
- Establishing project team approach and formal project management.
- Implementation of project control system for Technical Assistance projects worth \$30 million p.a.
- Introduction of Word Processing to the Agency.
- Development of on-line and database systems using ADABAS, TSO, CICS, ATMS, VIDEO.
- Establishment of methods and system for applications planning and management.

## **1974 to 1979**

### **Group Leader, Administrative Information Systems,** Computer Section, International Atomic Energy Agency.

#### Responsibilities:

- Manager of a group of 10 staff engaged in systems development and maintenance.
- Review and revise work of systems analysts, development and maintenance programmers, documentalist, and production staff in developing, implementing and maintaining financial systems and systems for personnel, publications, languages, technical assistance and general administrative applications (approx. 20 concurrent projects with annual budget of \$500 000).
- Analyse and define users' requirements, perform feasibility studies and cost/benefit analyses and propose solutions, selecting hardware and software.

#### Achievements:

- Development of budget, accounting, payroll, personnel, documents control, records management systems.

- Establishment of structured techniques for systems development.
- Design of first on-line system for a business application within the Agency.
- Development of Chargeback system.
- Programming of cash handling systems with automatic adjustment for currency fluctuations.

**1968 to 1974**      **Group Leader, Scientific and Technical Applications,**  
Computer Section, International Atomic Energy Agency.

*Responsibilities:*

- Manager of 4 analyst/programmers;
- Review and revise software development for statistical, agriculture and nuclear safeguards applications;
- Analyse, design and write software for modelling and simulation of Medical and Scientific applications;
- Computer Training Officer.

*Achievements:*

- Developed highly successful modelling programs which were distributed and used in hospitals and medical schools world-wide and which resulted in many invitations to lecture at conferences.

**1967 to 1968**      **Programmer,**  
Nuclear Data Section, International Atomic Energy Agency.

*Responsibilities:*

- Develop and maintain programs for exchange of data between Member States and the IAEA.

**1965 to 1967**      **Programmer,**  
Computer Services, Atomic Energy Research Establishment, Harwell, UK.

*Responsibilities:*

- Develop and maintain a subroutine library of 300 subroutines for the Harwell user community.
- Write scientific and general-purpose programs.
- Prepare computer acceptance tests.
- Develop cost allocation system.

*last updated: 2012-01-25*