Keywords:

Simulation, Scheudiling, Simulation methodology, digital simulation. Scheduling problems. Excell factory modelling system.

Notes:

Co-founder of CS department at Cornell.

Reading articles out of UCLA 1956-1957 preparing for. aPhD thesis. Trial and error. Working with GE, meet henry marckowitz-> influenced him to do computer work. Had summer jobs at manufacturing firms as an undergraduate. Visited 40 factories before during summer. “ Solving is a strong word”.

Used IBM 650 for his PhD thesis. Accidently invented remote access computer. Wife help him finish his PhD thesis. Introduced the first graduate course on CS at Cornell as a graduate student. We will give you this machine at 60% discount if you give a full 3 credit course in computing and IBM provided lecture notes. Second paper of him was first paper of Andy Schultz, department chair.

Why join Cornell? Schultz, Maxwell.

Work at RAND: wanted to get in touch with Jackson at UCLA. Mark. is developing simscript. Went to RAND of this and because of an IBM 704. Experimental simulation work happened at RAND. Used night time on IBM 704. Mid morning coffee break and had the results of the night study. World first simscript programmer.

**Tactical problems in digital simulation.->**  Wrote this report at RAND.

Cornell Research Simulator(CORE) Simulator developed at Cornell with Bill Maxwell. Report a queue network simulator.

Who influenced his work? Markowitz and Schultz.

The theory of scheduling 1967 (republished in 2003—without a single correction). Motivation was just an opportunity – there were a lot of papers-

Co-founder of the CS department at Cornell (saw an opportunity to make a difference, CS was just getting organized as an academic discipline). There were no many departments of CS back then. Got a million$ grant to set up CS department. Math and ECE were fighting on who was going to give the computing courses-> they created a CS department that was part of both departments. They recruited prospective faculty members (stole a third guy from Harvard).

Co-develop computer languages -> He was teaching the first computer class and using IBM languages, everything was done with punch cards. Correcting mistakes could takes weeks. From the beginning were design as error correcting languages.

IBM PL1 -> thought they were replacing fortran and cobal. They proposed to ibm to developed the teaching version of PL1, became PLC (teaching language-he wrote it). Structured programming was coming along. PLC was used in 250 universities.

Wrote book: programming for poets (condescending intro to programming for people who were never going to be programmers). -> He was only involved in the PLC.

He ran a company (40 minutes).

Allan Pritzker?

Conway->He did consulting with HP and IBM.

Change careers-departments 3 times in Cornell. Proposed semester a manufacturing. Created 15 credit course. Spent half time on a bus travelling and visiting manufacturing industries.

5 yr Mech.Eng. degree. Got a fellowship Supported in Graduate School->