

## REQUIREMENT

~ MOST INDUSTRIALISTS HAVE SUFFERED EDUCATION. MUCH RARER IS THE EDUCATIONALIST WHO HAS SUFFERED INDUSTRY. IF IT IS TRUE THAT A KNOWLEDGE OF THE SUBJECT IS A TENET OF GOOD TEACHING THEN THERE CAN BE NO SUCCESSFUL EDUCATION FOR INDUSTRY. IS IT NOT STRANGE THEN, THAT WITH EACH PASSING GENERATION, MORE AND MORE TIME IS BEING SPENT BY EDUCATION IN TRYING TO ACHIEVE SOMETHING THAT THEY ARE ILL-EQUIPPED TO DO? WHO HAS CREATED THE ILLUSION THAT SPECIALISATION IN EDUCATION IS THE CORRECT AND BETTER WAY TO MEET THE CAREER DEMANDS OF THOSE WHOSE FUTURE LIES IN INDUSTRY? SPECIALISATION THAT STARTS TWO YEARS BEFORE 'O' LEVEL ~ AT OPTION TIME.

IF THE HISTORY OF INDUSTRY IS EXAMINED, A HISTORY MANY BELIEVE LASTED BARELY 100 YEARS, THE HEYDAY OF SUCCESSFUL INDUSTRY WHICH CREATED OUR INDUSTRIAL HERITAGE WAS IN THE EARLIER YEARS OF THIS CENTURY. THE INNOVATORS, THE CREATORS OF THE HOUSEHOLD NAMES OF BRITISH INDUSTRY APPEAR TO HAVE HAD ONE SINGLE THING IN COMMON ~ THEY HAD ALL SUFFERED A CLASSICAL EDUCATION. SPECIALISATION TOOK PLACE IN LATER YEARS IN THE CLASSROOMS OF THE WIDER WORLD. IN OUR EDUCATION TODAY, DRIVEN BY THE CULT OF CERTIFICATION, THE SPECIALISTS IN EDUCATION MAY ALLOW THE WHOLE OF ONE HOUR EACH WEEK TO THE TEACHING OF A NON-SPECIALIST SUBJECT. THE ACHIEVEMENT OF A CERTIFICATE IS THE BE ALL AND END ALL OF THIS SPECIALIST APPROACH. THE END RESULT IS EDITIONISED IN THE AWARD OF FINAL QUALIFICATIONS ~

AN HONOURS DEGREE IN BUSINESS STUDIES (JEWELLERY RETAILING)

OR

AN HONOURS DEGREE IN ENGINEERING (SOIL MECHANICS)

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## RESOURCES

SPECIALISATION OF ITSELF PRODUCES THE DICHOTOMY BETWEEN EDUCATION AND TRAINING. NOT SURPRISINGLY EDUCATION IS A FULL TIME CAREER FOR THE VAST MAJORITY OF THE STAFF. DESPITE SOME EFFORT THE RESTRICTIONS ON INTERCHANGE BETWEEN EDUCATION AND INDUSTRY WILL REMAIN UNSURMOUNTABLE. INEVITABLY EACH YEAR AWAY FROM THE REAL OPERATION OF INDUSTRY CREATES A VOID IN THE SPECIALIST KNOWLEDGE OF THE TEACHER. A VOID THAT CANNOT BE FILLED BY SHORT COURSE, READING OR DEBATE.

EXAMINATION OF THE EQUIPMENT AVAILABLE TO THE TEACHER WILL REINFORCE THE SHORTCOMINGS OF THE TOTAL RESOURCE AVAILABLE FOR SPECIALIST TEACHING. FINANCIAL LIMITATIONS ALONE WILL ENSURE THAT EQUIPMENT IS AT BEST FIVE YEARS OUT OF DATE AND ON AVERAGE MUCH LONGER.

THERE ARE, OF COURSE, STRONG ARGUMENTS THAT A HIGH PROPORTION OF ADVANCED RESEARCH IS CARRIED OUT IN THESE SPECIALIST INSTITUTIONS OF HIGHER EDUCATION. THOSE WHO HAVE BEEN IN SUCH COLLEGES INEVITABLY FIND THAT, OUTSIDE OF MEDICAL SCHOOL, THERE IS LITTLE SPILL-OFF BETWEEN RESEARCH AND TEACHING. THE COMMERCIAL ASPECTS OF PATENT PROTECTION AND POSSIBLE LICENSING AGREEMENTS ALONE DICTATE THAT THE UTMOST SECRECY SURROUNDS RESEARCH INNOVATION.

THE ACID TEST IS SURELY IN THE EXAMINATION PAPERS REQUIRED BY THIS SPECIALIST CERTIFICATION PROCESS. QUESTIONS CLOTHED WITH DIFFERENT WORDS RE-APPEAR YEAR AFTER YEAR TO TEST THE RETENTIVE SKILLS OF STUDENTS. ORIGINAL THOUGHT, IF PRODUCED IN AN ANSWER, CAN HARDLY BE MARKED FAIRLY IF IT HAS NOT BEEN INCLUDED IN THE EXAMINERS MARKING PLAN.

## RESULTS

" FOR THE SAME NUMBER THAT ARE NOW AT WORK, IF THEY WERE DIVIDED INTO THE FEW OCCUPATIONS THAT NATURE REALLY REQUIRES THEN SO MANY OF EACH ITEM WOULD BE PRODUCED THAT THE PRICES WOULD FALL TO A LEVEL TOO LOW FOR THE ARTIFICERS TO MAINTAIN THEIR LIVING "

### THE SECOND BOOK OF UTOPIA.

IN OUR VERSION OF UTOPIA INDUSTRY NEEDS TO CREATE DEMANDS FOR THE WIDEST RANGE OF PRODUCTS AND IN CONSEQUENCE ENSURE THE WIDEST RANGE OF OCCUPATIONS. MANY OF THESE SELF GENERATING OCCUPATIONS HAVE THE NARROWEST OR SPECIALISED INTEREST AND ARE CLEARLY INCLUDED IN THE VOCATIONAL GUIDANCE SCHEMES CREATED IN SCHOOLS BY THE CAREER CREATING ENGINE OF INDUSTRY, THESE OCCUPATIONS SET CAREER OBJECTIVES FOR EDUCATION.

THIS INDUSTRY WHICH IS SEEN AS THE ONLY LONG TERM PROVIDER OF EMPLOYMENT, THE CREATOR OF THE WEALTH WHICH PAYS FOR THE SOCIETY AND ITS NEEDS. THE PLACE WHERE CREATIVE WORK CAN SATISFY THE CREATIVE NEEDS OF ITS EMPLOYEES. FOR THE MAJORITY CREATIVE WORK INVOLVES MAKING REPETITIVE PARTS TO A DRAWING BY MINDING A MACHINE. PERHAPS RECORDING FIGURES ON A COMPUTER INPUT DOCUMENT OR IN A LEDGER IN ACCORDANCE WITH AN ACCOUNTING PROCEDURE OR REPAIRING SOME EQUIPMENT IN LINE WITH A MAINTENANCE CHECK-LIST. IN THE INTEREST OF SOME CLEARLY LAID DOWN QUALITY STANDARD ANY NON-CONFORMITY IS DULY PUNISHED. FOR THIS MAJORITY CREATIVITY LIES OUTSIDE THE WORK PLACE WHICH, IN TRUTH, REQUIRES A CERTIFICATE IN HOW TO DEAL WITH ABSTRACT MONOTONY. NOT SURPRISINGLY INDUSTRY DEMANDS OF EDUCATION A CONCENTRATION ON THE THREE 'R's'. THERE ARE MANY, WHOSE TIME HAS BEEN SPENT IN THE HALLS OF INDUSTRY AND COMMERCE, WOULD ARGUE THAT ITS CODES OF PRACTICE, DISCIPLINES AND SYSTEMS REALLY DEMAND ~ ROTE, RITUAL AND RULES.