

TOPIC –

**“ SOME BRIEF
REFLECTIONS
ON THE EVOLUTION
OF WAR “**

**SCIENCE, TECHNOLOGY & SOCIETY
{ “STS” }**

**BY
FRANK J. GADEK, PH.D.**

WHILE GOING THRU MORE POWER POINT PRESENTATIONS
FOR MY NEW WEB SITE –

SOME “ REFLECTIONS “ CAME TO ME TO SHARE WITH
YOU FOR WHATEVER GOOD THEY MAY BE

CERTAINLY THE TOPIC IS VERY COMPLEX IN SO MANY
WAYS & HAS BEEN WITH US SINCE THE BEGINNING OF TIME

FIRST – THERE ARE ALWAYS “ BAD PEOPLE “ OUT THERE
THAT MUST BE CONTROLLED FOR THE OVERALL GOOD
OF HUMANITY

HOW BEST TO DO THIS HAS ALWAYS BEEN VERY COMPLEX

BUT IT MUST BE DONE “ ONE WAY OR ANOTHER “

CERTAINLY STS HAS PROVIDED MANY EVER INCREASING
POWERFUL OPTIONS PHYSICALLY, MENTALLY, CYBER OPTIONS,
ETC.

THE ORIGINAL CAVE PEOPLE USED THEIR PHYSICAL ASPECTS & SOON EVOLVED TO VARIOUS CRUDE WEAPONS

THE BEGINNING OF THE MOVIE “ SPACE ODESSY 2001 SHOWS SOME OF THIS & THEN MOVES TO OUTERSPACE – IF YOU LOOK AT THE “ FEATURES “ THE ORBITING OBJECT IS A DEVICE TO ACT AS AN AGRESSOR – BUT VERY SIMILAR IN SHAPE TO THE LOG THE CAVE PERSON TOSSES INTO THE AIR AS A NEW WEAPON !

WEAPONS EVOLVED & A GOOGLE SEARCH CAN PROVIDE MANY SPECIFIC DETAILS –

HAND HELD DEVICES – BLUDGEONS, SWORDS / DAGGARS, BOW / ARROWS, CROSS BOW, LANCES, SPEARS, GUNS,

THEN **RAMS, CATAPULTS, CANNONS, BOILING OIL, MOATS, ETC.**

THEN **FORTS, SEIGES, DESTRUCTION OF DEFENSES, TUNNELING, FIRE, ETC.**

AS **GUNS** BECAME MORE SOPHISTICATED THEY BECAME MORE ACCURATE & REPEATING !

ARTILLERY BECAME MUCH THE SAME + MUCH MORE POWERFUL WITH BETTER EXPLOSIVES – THAT COULD IN WW I BREAK THRU THE MOST STURDY FORTIFICATIONS & ACTUALLY DECREASE THE TOPS OF MOUNTAINS !

CAUSUALTIES MOUNTED IN EVER INCREASING AMOUNTS

THE **USA CIVIL WAR** MADE THIS VERY VIVID AS WE
COMMENORATE IT IN 2013 IN VARIOUS WAYS

BODIES HAD TO BE JUST PUT IN MASS GRAVES

SOME WERE PRESERVED WITH EMBALMING

MEDICAL ADVANCES ASSISTED IN SOME WAYS WITH
INCREASING NON – LETHAL CASUALTIES

NUMEROUS WARS OF MORE MINOR SCALES BOTH ON LAND & SEA [AIR WARFARE DID NOT START UNTIL ABOUT WW I IN THE EARLY 1900'S] DRAMATICALLY SHOWED HOW **MUCH MORE DESTRUCTION** COULD BE MADE WITH ADVANCES IN STS – BOTH DEFENSIVE & OFFENSIVE

THEY BOTH **COMPETED** WITH EACH OTHER – AS ONE ADVANCED, THE OTHER DID ALSO TO COUNTER THE ADVANCE OF THE OTHER

THE FAMOUS FALSE PHASE WAS USED TO JUSTIFY MUCH –

“ TO SAVE MORE LIVES ! ”

E.G. MACHINE GUN, CHEMICAL WARFARE, ATOMIC BOMB, ETC.

CERTAINLY WWI AROUND THE BEGINNING OF THE 1900'S WAS A GREAT TURNING POINT IN SO MANY WAYS.

IT EMPHASIZED THE MANY OTHER SO SEVERE NEGATIVE ASPECTS OF WAR – THE MANY AFTER EFFECTS ESPECIALLY WITH REPECT TO FAMILIES & SOCIETIES –

VETERANS INCLUDING THE MANY INJURED HAD TO BE TAKEN CARE OF FOR LIFE AS WELL AS THEIR FAMILITES

THE PHYSICAL DESTRUCTION OF COUNTRIES HAD TO BE REPAIRED SO LIFE & SOCIETY COULD GET BACK TO BEING MORE NORMAL & PRODUCTIVE.

THIS WAS ENORMOUSLY ESCALATED IN WW II – IN BOTH THE EUROPEAN & PACIFIC FRONTS.

THEN ALL THE **OTHER WARS** – E.G. VIETNAM, IRAQ, AFGHANISTAN, ETC. SHOWED HOW NEW ASPECTS OF WAR WERE EMERGING THAT COULD DEFEAT HIGH TECH WITH LOW TECH –

GUERRILLA WARFARE, THE MINDS OF THE OPPONENTS, CYBER WARFARE, NUCLEAR, CHEMICAL / BIOLOGICAL / RADIOLOGICAL, TERRORISM, ETC.

CERTAINLY THE MANY NOVELS OF **TOM CLANCY** ILLUSTRATE VERY DRAMATICALLY MANY OF THE ASPECTS INVOLVED.

IF YOU DO NOT KNOW OF HIM, A GOOGLE SEARCH WILL CERTAINLY GET YOU STARTED.

HIS BOOKS ARE OVER 500 PAGES WITH MANY OF THE SAME REPEATING CHARACTERS

BUT FOUR [4] HAVE BEEN MADE INTO MOVIES & ARE READILY AVAILABLE ON DVD'S WITH MANY EXTRAS EXPLAINING WHAT GOES ON " BEHIND THE SCENES " IN MAKING SUCH MOVIES.

HE DIED IN 2013 WITH ONE MORE NOVEL & MOVIE

BUT THERE ARE MANY OTHER AUTHORS ALSO, BUT NONE AS GREAT AS HE WAS

SIMPLY, WE CAN NOW DESTROY THE WORLD & HUMANITY
WITH THE POWER OF WAR

**ON THE OPTIMISTIC SIDE AS WILLIAM FAULKNER THE GREAT
AUTHOR NOTED –**

**“ WE HAVE GOTTEN THIS FAR SO THERE IS SOME
OPTIMISIM ! “**

BESIDES **DESTROYING** LIFE, WE CAN ALSO NOW **CREATE** IT
& EVEN MODIFY IT.

EMENSE POWER IS NOW AVAILABLE

THE CHALLENGE OF COURSE IS TO TRY TO USE IT FOR THE
BEST LONG TERM FOR ALL OF HUMANITY

THAT IS PART OF MY DECADES OF STS – NSF RESEARCH

**HOW TO HELP US ALL BETTER UNDERSTAND & MANAGE IT
IN OUR EVERYDAY LIVES.**

SO HOPEFULLY WHAT I TRY TO DO IN SO MANY DIFFERENT
VARIOUS & DIVERSE, ETC. WAYS WILL HELP IN SOME SMALL WAY.

**YOUR CONTRIBUTIONS & FEED BACK OF COURSE CAN BE
VERY VALUABLE SO PLEASE CONSIDER CONTRIBUTING IN
ANY WAY YOU FEEL COMFORTABLE WITH.**

**ALL THE BEST ALWAYS IN ALL WE ALL DO FOR SO MANY IN SO
MANY WAYS EVEN IF WE NEVER KNOW ABOUT IT !**

