

Chapter 1 : Coventry Climax - Wikipedia

Includes bibliographical references (p.) and index Sentinels above the sound -- Peoples on the move -- The viking east -- Pagans and Piasts -- Holy warriors and Hanse merchants -- The rise and fall of Marienburg -- Ships, pirates and adventurers -- The Chimera of Kalmar -- Muscovy and Wittenberg -- Lion of the north -- Nemesis at Poltava -- Imperial Russia in the ascendant -- Thunder.

This would then be used as a route to achieve rapid social transformation and industrial and technological development without assistance from foreign powers, a process which the party characterised as a "Super Great Leap Forward". He was reportedly impressed with the self-sufficient manner in which the mountain tribes of Cambodia lived, which the party interpreted as a form of primitive communism. Khmer Rouge theory developed the concept that the nation should take "agriculture as the basic factor and use the fruits of agriculture to build industry". The focus of the Khmer Rouge leadership on the peasantry as the base of the revolution was according to Michael Vickery a product of their status as "petty-bourgeois radicals overcome by peasantist romanticism". Though there was extreme harassment of Buddhist institutions, there was a tendency for the CPK regime to internalise and reconfigure the symbolism and language of Cambodian Buddhism so that many revolutionary slogans mimicked the formulae learned by young monks during their training. Islamic religious leaders were executed, although some Cham Muslims appear to have been told they could continue devotions in private as long as it could not interfere with work quotas. Almost immediately, the party was renamed the Indochinese Communist Party, ostensibly so it could include revolutionaries from Cambodia and Laos. Almost without exception, all of the earliest party members were Vietnamese. By the end of World War II, a handful of Cambodians had joined its ranks, but their influence on the Indochinese communist movement as well as their influence on developments within Cambodia was negligible. On April 17, 25 years to the day before the Khmer Rouge captured Phnom Penh, the first nationwide congress of the Khmer Issarak groups convened and the United Issarak Front was established. According to the historian David P. According to a document issued after the reorganization, the VWP would continue to "supervise" the smaller Laotian and Cambodian movements. In the September election, it won about four percent of the vote, but did not secure a seat in the legislature. Government attacks prevented it from participating in the election and drove it underground. Sihanouk habitually labelled local leftists the Khmer Rouge, a term that later came to signify the party and the state headed by Pol Pot, Ieng Sary, Khieu Samphan and their associates. In very general terms, these groups espoused divergent revolutionary lines. The other line, supported for the most part by rural cadres who were familiar with the harsh realities of the countryside, advocated an immediate struggle to overthrow the "feudalist" Sihanouk. From their ranks came the men and women who returned home and took command of the party apparatus during the s, led an effective insurgency against Lon Nol from until and established the regime of Democratic Kampuchea. He attended a technical high school in the capital and then went to Paris in to study radio electronics other sources say he attended a school for printers and typesetters and also studied civil engineering. Khieu Samphan was born in and specialized in economics and politics during his time in Paris. Most came from landowner or civil servant families. Pol Pot and Hou Yuon may have been related to the royal family as an older sister of Pol Pot had been a concubine at the court of King Monivong. These two well-educated women also played a central role in the regime of Democratic Kampuchea. In , the two men went to East Berlin to participate in a youth festival. This experience is considered to have been a turning point in their ideological development. Meeting with Khmers who were fighting with the Viet Minh and whom they subsequently judged to be too subservient to the Vietnamese, they became convinced that only a tightly disciplined party organization and a readiness for armed struggle could achieve revolution. They transformed the Khmer Students Association KSA, to which most of the or so Khmer students in Paris belonged, into an organization for nationalist and leftist ideas. The organization was composed of cells of three to six members with most members knowing nothing about the overall structure of the organization. In , Pol Pot, Hou Yuon, Ieng Sary and other leftists gained notoriety by sending an open letter to Sihanouk calling him the "strangler of infant democracy". Inside, the group was still run by the Cercle

Marxiste. The central role of the peasants in national development was espoused by Hou Yuon in his thesis, *The Cambodian Peasants and Their Prospects for Modernization*, which challenged the conventional view that urbanization and industrialization are necessary precursors of development. This pivotal event remains shrouded in mystery because its outcome has become an object of contention and considerable historical rewriting between pro-Vietnamese and anti-Vietnamese Khmer communist factions. The name change is significant. From then on, Pol Pot and loyal comrades from his Paris student days controlled the party centre, edging out older veterans whom they considered excessively pro-Vietnamese. Pol Pot had shortly before been put on a list of 34 leftists who were summoned by Sihanouk to join the government and sign statements saying Sihanouk was the only possible leader for the country. Pol Pot and Chou Chet were the only people on the list who escaped. All the others agreed to cooperate with the government and were afterward under hour watch by the police.

Cambodian Civil War The region where Pol Pot and the others moved to was inhabited by tribal minorities, the Khmer Loeu, whose rough treatment including resettlement and forced assimilation at the hands of the central government made them willing recruits for a guerrilla struggle. Lower ranking members of the party and even the Vietnamese were not told of it and neither was the membership until many years later. The party leadership endorsed armed struggle against the government, then led by Sihanouk. In , several small-scale attempts at insurgency were made by the CPK but they had little success. Though North Vietnam had not been informed of the decision, its forces provided shelter and weapons to the Khmer Rouge after the insurgency started. Vietnamese support for the insurgency made it impossible for the Cambodian military to effectively counter it. For the next two years, the insurgency grew as Sihanouk did very little to stop it. As the insurgency grew stronger, the party finally openly declared itself to be the Communist Party of Kampuchea. Documents uncovered from the Soviet archives revealed that the invasion was launched at the explicit request of the Khmer Rouge following negotiations with Nuon Chea. By June, three months after the removal of Sihanouk, they had swept government forces from the entire northeastern third of the country. After defeating those forces, the North Vietnamese turned the newly won territories over to the local insurgents. The Khmer Rouge also established "liberated" areas in the south and the southwestern parts of the country, where they operated independently of the North Vietnamese. Many of the new recruits for the Khmer Rouge were apolitical peasants who fought in support of the King, not for communism, of which they had little understanding. Many people in Cambodia who helped the Khmer Rouge against the Lon Nol government thought they were fighting for the restoration of Sihanouk.

Operation Menu and Operation Freedom Deal The relationship between the massive carpet bombing of Cambodia by the United States and the growth of the Khmer Rouge, in terms of recruitment and popular support, has been a matter of interest to historians. Some historians have cited the United States intervention and bombing campaign spanning "as a significant factor leading to increased support of the Khmer Rouge among the Cambodian peasantry. Chandler argues that the bombing "had the effect the Americans wanted" it broke the Communist encirclement of Phnom Penh".

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Pre-war[edit] The company was started in as Lee Stroyer , but two years later, following the departure of Stroyer, it was relocated to Paynes Lane, Coventry , and renamed as Coventry-Simplex by H. Pelham Lee , [1] a former Daimler employee, who saw a need for competition in the nascent piston engine market. An early user was GWK , who produced over 1, light cars with Coventry-Simplex two-cylinder engines between and Hundreds of Coventry-Simplex engines were manufactured during World War I to be used in generating sets for searchlights. In the s the company moved to Friars Road, Coventry and in the late s they also acquired the former Riley premises on Widdrington Road, Coventry. In the early s the company also supplied engines for buses. With the closure of Swift in , the company was left with a stock of engines that were converted to drive electric generators, giving the company an entry into a new field. The economic problems of the s hit the business hard and Leonard Pelham Lee, who had taken over from his father, diversified into the production of water-pumping equipment and the "Godiva" was born. Going into the war, Coventry Climax used their marine diesel experience to further develop and build the Armstrong Whitworth supercharged H30 multifuel engine for military use. This has been fitted as an auxiliary engine in the British Chieftain and Challenger battle tanks and Rapier anti-aircraft missile systems. Post-war[edit] Coventry Climax ET model In the late s, the company shifted away from automobile engines and into other markets, including marine diesels, fire pumps , and forklift trucks. In , the ET was announced, which the company claimed was the first British-produced forklift truck. This was designated the FW, for "Feather Weight". The engine was displayed at the Motor Show in London and attracted attention from the motor racing fraternity for its very high " horsepower per pound of weight ". With strong persuasions at the show including those by Cyril Kieft who had Stirling Moss as a F3 driver and a young Colin Chapman , Lee concluded that success in competition could lead to more customers for the company and so the team designed the FWA, a Feather Weight engine for Automobiles. Kieft at 24 Hours of Le Mans The first Coventry Climax racing engine appeared at the 24 Hours of Le Mans in the front of one of two Kieft sports racers, but both cars one with an MG engine failed to finish the race due to problems unrelated to the engines. The new Formula Two regulations suited the 1. The following year, the first Climax engines began to appear in Formula One in the back of Cooper chassis. In general terms, however, the engines were not powerful enough to compete with the 2. At the same time, the company produced the FWE engine for Lotus Elite and this enjoyed considerable success in sports car racing , with a series of class wins at the Le Mans events in the early s. In , there was a new 1. There were a total of 22 Grand Prix victories before with crossplane, flatplane, two- and four-valve versions of the FWMV. When the new, 3-litre, formula was introduced, Coventry Climax decided not to build engines for the new formula and withdrew from racing after the unsuccessful FWMW project, with the exception of the new 2-Litre version of the FWMV. Also in the early s, Coventry Climax was approached by Rootes to mass-produce FWMA's for use in a compact family car project called Apex with an all-aluminium alloy over head cam engine combined with a full- syncromesh aluminium transaxle. The adoption to mass-production was successful, and the project came out to the market as the cc Hillman Imp totaling over , units made by including the later cc version. In the early s the fire pump business was sold back into private ownership, and the Godiva Fire Pumps company was formed in Warwick. Sir Emmanuel Kaye , also chairman and a major shareholder of Lansing Bagnall at the time, formed the company, independent of his other interests for the purpose of acquiring Coventry Climax. In Coventry Climax went into receivership and was acquired by Cronin Tubular. In , a further change of ownership came with the engine business being sold to Horstman Defence Systems of Bath, Somerset , thus breaking the link with Coventry. Kalmar Industries acquired the forklift truck interests of Coventry Climax in The following design aspects are credited to these two people, except the last two items, in which Peter Windsor Smith played a considerable role in place of Mundy who left the firm in and returned in Designed as a fire engine component, one unique requirement the Feather Weight fulfilled was the ability to be run at nearly full-throttle without a proper warm-up. This required careful attention to lubrication and thermal

expansion rates on its parts, which translated into legendary durability in rough racing environments at the price of high oil consumption. In the SOHC reverse-flow cylinder head design, where valves are actuated directly under the camshaft, and where the intake and exhaust ports are located fore and aft of the cylinder bore center, this arrangement allows intake and exhaust flows to encourage a swirl in the same rotational direction in the combustion chamber going into and coming out of the cylinder. Later crossflow DOHC FPF designs incorporated the same concept in a completely different arrangement, where the tracts in the intake manifold are connected to the intake ports in a staggered manner, in a somewhat corkscrew fashion, to create the turbulence by the intake flow. The FWMV had an unusually small exhaust valve size to intake valve size ratio for an increased intake flow speed for the same reason. Flatplane crankshafts became the norm in V8 racing engine designs from the s on. It was introduced in the early s and also built under licence by Triumph. It looked virtually identical but there were internal differences. It was still cc, I. The timing marks on the flywheel are now observed from the top of the engine rather than the underside OC engine. It was now normally supplied with the side draught Solex rather than a downdraft SU Carburettor. It was different from the 4 cylinder engine in the it had both a water pump and an oil filter, whereas the 4 cylinder engine relied on thermosyphon alone and no oil filter. This engine was revolutionary in its lightness, with a bare weight of pounds, combined with the maintenance-free valve adjustment using shims under an overhead camshaft. With a bore of 2. In exchange for a 1, unit purchase agreement signed by Chapman, it was specifically designed with forged steel crank for the Lotus Elite but became a favourite with a number of sports car racing firms for its racing durability and high power-to-weight ratio. FWE Stage I - This boat engine came out to the market as Bearcat Walter Hassan and especially Harry Mundy having their roots deeply in the racing field, started discussions and preliminary designs of a 2. Because this project was a pure racing engine from the beginning, which was in stark contrast to the corporate product history up to FWA, the engine was named FPE for Fire Pump Engine Eight according to another lore by the playful minds of Hassan and Mundy. However, this fuel injection system, being designed for aeroplane engines, was found not having the means to enrich the mixture for acceleration, which is not suitable for automobile use. Designed in and becoming available in , [11] it had gear-driven camshafts, steel alloy cylinder sleeves and individual oil scavenge as well as pressure feed pumps for a dry sump system. Carburetion was by two twin-choke Weber DCO side-draft carburettors. See the above Design section for its unusual intake port design. The FPF with larger block to accommodate larger bores was then adapted to the new 1. It also served as a stopgap in the new 3. The following is the list of FPF versions: This made the camshaft turn in the same direction as the crank. Conrod big end part line was made horizontal, as opposed to the previous diagonal. The number of cylinder head studs was reduced from 18 to

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Therefore, the development of selective agonist and antagonist analogs is important for in vivo studies characterizing the biological significance of the different receptor–ligand systems and for future pharmaceutical applications. We have used NMR spectroscopy to determine the three-dimensional structure of this peptide to gain structural insights into the consequences of combining chains from two different relaxins. RXFP1, however, demonstrates a more complex binding mechanism, involving both the A chain and the B chain. The creation of chimeras is a promising strategy for generating new structure–activity data on relaxins. Together with insulin and insulin-like growth factors I and II, the relaxins make up the insulin superfamily of signaling proteins. Structurally, the members of the insulin superfamily are characterized by two peptide chains A and B connected by two interchain disulfide bridges. Block arrows indicate the primary receptor–ligand pair and thin arrows indicate additional high-affinity cross-interactions. Relaxin-3 possesses the unique feature of being able to bind to and activate both types of relaxin receptors and in fact is a high-affinity agonist for both RXFP1 and RXFP4, in addition to its endogenous receptor, RXFP3. Excitingly, such selective ligands were recently produced by the combination of peptide chains from two different relaxins, creating relaxin chimeras. Extensive two-dimensional homonuclear data were collected at 600 MHz and assigned using sequential assignment strategies, which allowed the identification of nearly all backbone and side chain resonances. The secondary shifts represent the deviations in chemical shifts of a particular residue in the peptides of interest relative to values in a random coil peptide. Interestingly, these key positions are highly conserved in most relaxins, with the exception of INSL4, and thus other chain combinations likely adopt a similar fold. Thus, the creation of relaxin chimeras may provide an efficient route to the identification of multiple binding sites within the two chain peptide structures that are important for interactions with different relaxin receptors.

Conflicts of Interest The authors declare no conflicts of interest.

A disulfide homolog of insulin. Evolution of the relaxin-like peptide family: From neuropeptide to reproduction. Central relaxin-3 administration causes hyperphagia in male Wistar rats. Activation of orphan receptors by the hormone relaxin. In vitro and in vivo characterization. Solution structure and novel insights into the determinants of the receptor specificity of human relaxin

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NMR structural analysis of the R3/I5 chimera. a, NOESY spectrum recorded with a mixing time of ms at MHz on a sample of 1 m m R3/I5 at K and pH 4. The sequential walk used to assign the data is marked for the relaxin-3 B-chain.

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The flag of Democratic Kampuchea whose design was used by Khmer guerrillas since the s with the building design varying.