Oil Empire

Visions of Prosperity in Austrian Galicia

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eral were as poorly represented in the provincial government as in the or of oil as empowering the little man. Peasants and "little men" in genthus clearly not Vienna, but Lviv. development"83—at least as far as they related to the oil industry—was "social welfare, crime, public health, primary education, and economic since the middle of the nineteenth century, the site for discussions of and unofficial agents. As historian Gary Cohen would have suspected were able to hold their own against the central government and its official represents an occasion on which local politicians and local interest groups imperial government, if not more poorly still. Nevertheless, this debate sense, one cannot begin to talk about a democratic distribution of power,

what the government had been unable to do by fiat. They slowly squeezed position was secure, they used economic tools to accomplish privately Over the next two decades, large businesses, most of them set up with owner and operator, producer and refiner, or employer and employee mediator, and negotiator between conflicting parties-whether land subterranean property, the government retained the position of arbiter, though landowners had exclusive rights to the profits derived from their interfere with the industry's organization, design, and management. Alclaiming state ownership of oil and wax, Vienna was able to indirectly introducing extensive government regulation of the industry without capital into the industry, even while maintaining local supervision. By did, however, create a legal framework for the gradual entry of foreign did not change the fundamental nature of the oil industry overnight. They were concepts for the future. The oil industry awaited the coming of created cartels and cooperatives to share the costs of pipelines and storage out local producers, established economies of scale, and created and reforeign capital, began to take hold of the Galician oil industry. Once their In the 1880s, they would appear. leaders who would make it viable in a world of international competition facilities. But in the 1860s and 1870s, organization and modernization These new regulations and restrictions may seem modest in scope and

Petroleum Fever

and a New National Industry Foreign Entrepreneurs

personal improvement. Their individual stories cannot be divided fron reputations and fortunes were established by a group of pioneering youns admiration of engineers for decades to come. This was a period in which producers of the 1880s and 1890s would earn themselves the respect and under the rubric of selfish, ignorant, and shortsighted peasants, the oi appeared to be immense natural wealth. Although oil producers of the spread autonomy and the economic opportunities offered by wha men who chose Galicia as the site of a grand experiment in national and province and its inhabitants, or, conversely, to develop appropriate strat the story of the maturation of the Galician oil industry. 1860s and 1870s were grouped together in the contemporary imagination wealth, taking advantage of the political privileges that came with wide Polish state in the absence of the "historic" Polish-Lithuanian Common At the same time, Galicia became the site of attempts to create a mini egies for dealing with the lack of civilization in Europe's own "Siberia." industry was accompanied by overt and hidden attempts to "civilize" th Empire (or in a reconstructed Poland). External participation in Galicia: colored by competing visions of Galicia's proper place in the Austrian debates within Galicia, as well as those between Lviv and Vienna, wer made solely on the basis of economic interests or reasoning. Politica development were decisions relating to oil production, refining, and trad than merely economic consequences. At no point in the course of it reveal that the Galician oil industry was the site of disputes with mor velopment. Galician oil entrepreneurs' political battles and social statu of industrialists forging ahead with a project of modernization and de The story of the oil industry's economic maturation is not a simple on

plaint in Robert Musil's 1930 novel The Man without Qualities: "But do arduous. First, the visitor would be subjected to the discomforts and be undertaken lightly. Although it was connected to the Austrian railroad a symbol of the city's unusual wealth, the authors noted that an asphalt souls. . . . The workers are demoralized by alcoholism. Although a Mining wax, oil, and oil products," one saw "no prosperity in this village of 10,000 and warehouses," but although it had delivered "over 20 million [sic of mines and shafts, piles of clay and slate, numerous barracks, buildings, would recommend Borysław to the accidental tourist. This "Petroleum Galicia written for tourists and business travelers reported little that the amenities that ease the weary traveler. An illustrated guidebook to destrian with city shoes to navigate,3 Once there, he would find none of picking up crab lice! I've never felt so filthy helpless!"2 After arriving in you know what it's like?! It's like traveling second class in Galicia and network via an extension of the Dniesterbahn in 1872, travel remained evard that was lined by the beautiful houses and gardens of the "petrosidewalk (a rarity in the small towns of Galicia) ran along the main boulrants, and a café, Drohobycz was derided as a "rich but unclean city." As to the nearest metropolis, Drohobycz (which boasted 18,225 residents in Office has its seat here and the influx of foreigners is considerable, one California of Galicia" offered the spectator a "valley filled with thousands the remaining distance along a dirt road that was impossible for a pethe hapless visitor would struggle to find a hackney carriage to take him Borysław's train station, which was itself two kilometers from the town, hazards of Galician train travel, immortalized by General Stumm's comthey are not permitted to use the sidewalks."5 "in other towns, these peddlers have their designated places of sales, and they besmirch." To place this outrageous behavior in context, he added: troleum from head to toe," who "brush against pedestrians whose clothes same sidewalk was frequented by petroleum peddlers, "covered with peleum kings."4 Commenting on its filth, another visitor lamented that this 1882), fared little better. Despite the presence of three hotels, two restaufinds no hotels—only crude inns and a few miserable traiteurs." Visitors Traveling to Borysław in the early 1880s was an onerous task not to

newest and most promising industry, the oil basin drew thousands of sented a calculated desire to demonstrate support for the province's basin. In addition to Emperor Francis Joseph, whose 1880 trip repreprominent personalities and humble vagrants chose to travel to the oil But despite these obstacles, over the next few decades more and more

> ilized West to the Galician hinterland. preneurs, most of them exogenous, with visions of future fortunes the modern men and women in the local workers. Then there were entre lodging, food, and drink. A few optimistic socialists sought progressive and passers-through opportunities to make money from the provision c of locals who saw in the booming population of newcomers, itinerant day labor in one of the wax mines or oil pits. These drew the attentio neighboring villages and hoped to supplement their income with casua who came to the region was counted in official censuses. Many lived i justified the present personal sacrifices required in a move from the civ 1872).6 Even these numbers are deceptive, however, since not everyon sprawling town, together housed 28,000 (up from a modest 7,613 i Borysław and Tustanowice, two villages that had grown together into on other, more characteristic, new faces. From 1882 to 1914, Drohobycz population rose from just over 18,000 to around 38,000 resident

of scientists and adventurers. By the beginning of the twentieth century oilmen represented a powerful social and economic force that helpec tury, oil was a curiosity, and its extraction and exploitation were the realm ennese authorities, and of refiners. At the middle of the nineteenth cenagainst those of landowners, of small business operators, of central Viproprietors and governing boards were prepared to defend their interest panies backed by banks and conglomerates from outside Galicia, in define the course of Galician politics. cluding some of Vienna's most prominent financial institutions. Their by those entrepreneurs were joined by a plethora of new joint-stock com industry. At the turn of the twentieth century, the companies founder clear that they had linked their personal fortunes to those of the oi the emergence of a powerful lobby of large-scale producers who made i nology used to extract oil, a concomitant explosion in production, and oil fields of Schodnica in 1895, Galicia saw a transformation in the tech mining law in 1884 and ended with the opening of the particularly ricl methods. In the decade that began with the introduction of the nev workers who were required by technologically modern production attract significant numbers of serious entrepreneurs and the skillet shelter and entertainment, only in the 1880s did the oil region begin to innkeepers and tavern keepers who lived off those workers' need fo and towns of the oil basin since the beginning of the industry, as had th While migrant and temporary workers had characterized the village

Starting in 1884, the methods of financing and executing oil production

of the First World War. Neither of these developments were complete often with foreign backing, slowly tried to drive smaller, more haphazard and refining in Galicia matured. New technologies that promised to raise side with machine drilling. Small-scale companies with a handful of emmetamorphoses, however. Digging and hand drilling continued side by companies out of business, a process that continued until the outbreak troduced. At the same time, a group of large, capital-rich companies the Galician oil industry to standards set by the United States were inployees and no capital investment held on to their precarious existence for decades more.

that almost all companies were run by individual Galicians, most of them of which only 2,630 tons (less than 3 percent) were exported.11 The high although called 'explosive', poses no threat when one knows how to power and its quality, for the rural poor." A subsequent comment in this of oil, described in a government report as "one white, high grade, idencould not be sold there, leading to the production of two different grades veloped consumer markets.9 In addition, the weakness of the domestic tion of the Ministry of Finance) and in part the fault of still underde-"stranglehold of taxation" (a remark that aroused the immediate objecennese mining commissioner suggested that it was in part the fault of the scattered in a desert."8 There were several explanations for this: one Viindustrial city in all of Galicia, and that the few factories lie like oases with the exception of the city of Biała, there is not a single so-called Galician trade inspector reported in 1884: "it is a well-known fact that, nérale et Pétrole, commonly refered to as "the French Company." The Credit Bank and the Société Française pour l'Exploitation de Cire Mi-Jewish. The only exceptions were two large wax companies: the Galician A list of 205 oil and wax production companies active in 1881 reveals peting with American oil outside of the empire, and little had been done costs of production and shipping made Austrian oil incapable of com-But exports remained low: in 1891, Galicia produced 87,700 tons of oil handle it and has won, due to its much cheaper price, a large market." 10 report revealed that the difference was not just cosmetic: "This lesser type, for export, and one yellow, mixed with gasoline to raise its illuminating tical to American [oil] for the cities, the wealthiest rural residents, and (that is, Galician) market was such that high-quality oil made for export to lower those costs. Interest in oil had been slow to materialize among larger companies

> did indeed directly contribute to the oil industry's unprecedented growtl promise drew the attention of several inspired individuals whose action nineteenth century, but they did create a more promising market. The investment that characterized the oil industry in the last years of th developments did not themselves cause the explosion in production an fined oils in 1882 provided some price protection from imports.¹³ Thes oil industry. Fourth, the introduction of higher tariffs for crude and re ership and mineral rights control, brought about greater regulation of th entire oil basin, connected production regions with the rest of the empirstock companies could legally run mining operations in Austria. 12 Second Third, the 1884 Mining Law, which introduced registries for landowr the construction in 1883 of the Transversalbahn, which ran through th promising to entrepreneurs. First, an 1881 law ensured that foreign join In the early 1880s, a series of developments made the industry more

of the great potential and the great peril of the oil industry and left tha industry transformed. home. Pioneers, innovators, and self-made men both, they set an exampl breeding, they chose to settle in the province and make it their permanen fall with oil production and prices. Not connected to Galicia by birth o mitted to the Galician oil industry; their personal fortunes would rise and creasingly to be found. Szczepanowski and MacGarvey were fully com still without "stable foundations" in Galician culture,14 but they were in of Galician citizen; as Ivan Franko put it, such entrepreneurial spirits wer created popular Polish heroes. But both were symptomatic of a new breeparticipated in any of the numerous nineteenth-century uprisings tha noble, neither was invested with particular artistic talents, and neithe who are memorialized in biographical dictionaries of Galicia. Neither wa native of Canada; Szczepanowski was born in the Duchy of Pose Stanisław Antoni Prus Szczepanowski (1846-1900) and William Henr (Poznań). Nor did they represent the type of great and prominent figure MacGarvey (1843–1914). Neither was born in Galicia. MacGarvey was Two men took the lead in taking advantage of this improving situation

of 1873. Mining was carried out largely in the same primitive fashion of impending legal reform. What they found when they got there was a industry that had stagnated, in particular in the years after the depression around 1880 (Szczepanowski in 1879 and MacGarvey in 1882) amid new that had characterized the previous decade. The quarter century of tech Both Szczepanowski and MacGarvey turned their attention to Galici

could only be retrieved from wells that had been dug. As long as wax widespread absence of drills can be explained by three factors. First, wax nearly all shafts were dug, rather than drilled, and steam engines were an poles and grasshopper walking beams.16 At that same time in Galicia. America, percussion drilling had replaced older methods that used spring in Pennsylvania was powered exclusively by engines.¹⁵ By 1873 in North exploitation techniques in Galicia. As early as 1865, the sinking of wells oil fields of Pennsylvania and Ontario had not brought great change to nological progress that had made advanced drilling commonplace in the as 1862, no drilling method had been found that exactly suited the geo-Second, although attempts to drill rather than dig had been made as early this made operators anxious to protect any possible wax deposits.18 was more profitable than oil, as it was throughout the 1870s and 1880s, horsepower in use in the entire Galician oil production industry.¹⁷ The unknown luxury: in 1885, there was one steam engine with sixteen engines with a total of thirty-eight horsepower.20 quired to purchase drills and pay skilled drillers. That the lack of capital small, low-capital companies could not afford the initial investment relogical conditions of the Carpathian foothills.19 Third, the plethora of in refining: in 1876, Galicia's forty-seven refineries had only seven steam was at the heart of the problem is demonstrated by similarly weak figures

to twenty square meters in size [sic], a prospector would dig a round shoveling the earth he removed into a wooden bucket now suspended Standing at the pit's bottom, the pit worker would dig deeper and deeper. simple knot to the belt of the pit worker who would be lowered into the made from a crooked piece of wood with a naturally formed winding the ground on either side of the hole to serve as supports for the windlass about six inches thick and forked at the top would be hammered into be sunk further and reinforced with more basket weaving. Two poles would be plaited with hazelnut twigs like a basket. Then the hole would to three inches thick vertically around the perimeter of the hole. These hole about one meter in diameter. He would then sink poles about two the scene of a flurry of activity. After acquiring a plot typically thirteen pit. (Pit workers were invariably men, for although women were emhandle. A hemp rope wrapped around the windlass was attached by a from the same rope that would later pull him out of the pit.21 Workers ployed in the oil industry, they were never allowed to work underground. When a new oil field was discovered in Galicia, it immediately became

> several days in a row "marvelous."23 called the production of a mine that produced 3.1 tons of oil a day for ward progress on a typical day. A government inspector in the 1870 pectors could expect to make no more than twenty centimeters of down rates of oil production were low. In the 1860s and 1870s, Galician pros removed by the bucket.22 Not surprisingly, digging proceeded slowly, and lowing morning, the well would be filled with oil, which would then be it and the air. Usually, when the wooden planks were removed the fol smell or see oil bubbling up at the bottom of the well. At that point, h shaft. This continued until the pit worker reached a point where he could for the pressure of the oil to push through the thin layer of earth between boards overnight. The well's anxious owner and his employees would wai would be pulled out of the well, which would be covered with wooder would turn a ventilator that was supposed to circulate fresh air into th gases became dangerous, workers (sometimes female) abovegrounobstacles in times of fire. When the pit had been sunk to a depth at which mounds of earth, which were left to stand next to the pits and becam aboveground would lift up the bucket and empty it, forming hug

when gases were ignited by even the smallest spark.25 a stone accidentally dropped into the shaft from above or by a fire started avoid all underground accidents could be (and frequently were) killed by suffocated to death. In addition, a pit worker was in constant danger of sciousness while they were being lowered into or lifted out of the pit a safety hazard. The workers were often victims of collapsing shafts, the be closer than he anticipated. Even those pit workers who were able to being caught unexpectedly by sudden eruptions of oil that turned out to leagues aboveground, they would continue to inhale the poison until they while working at the pit's bottom and this went unnoticed by their colthey could (and often did) fall to their deaths. If they became unconscious by this irrational, unprofessional manipulation."24 The noxious gases tha ground water or the pressure of the earth for long. Already several liveto one engineer, "a shaft sunk in this fashion cannot resist the underprimitive cribbing provided by hazelnut twigs notwithstanding. According filled these pits often knocked workers unconscious; if workers lost conhave been lost because of the collapse of shafts or falling stones cause(In addition to being incredibly inefficient, this style of extraction was

was little that seemed modern about the oil industry. Many small oper-Despite accident rates more reminiscent of factory than farm life, there

of whom were Jewish, for the deplorable condition of the industry. Few quo; their inertia and resistance to change frustrated early attempts at ators seemed satisfied with the risks and rewards offered by the status no one expected that reform would come at the hands of producers for Borysław's earliest entrepreneurs were exceedingly rare, however, and interest into harmony with that of the country."26 Such words of praise of those citizens of the Mosaic faith who know how to bring his own Upon his death, a contemporary, Stanisław Olszewski, called him "one refinery in Kołomyja, built in 1882 and another near Jasło, built in 1890. few successfully integrated companies, Gartenberg and Schreier, with a pany founded in the earliest days of oil exploitation into one of Galicia's Petroleum Association (GLPV), he successfully transformed a small com-Schreier (1844-1898). A long-standing member of the Galician Provincial tions as men of skill and conscience. One such man was Efroim Hersch Jewish producers were able to overcome prejudice and establish reputareform. Contemporaries were quick to blame these small operators, most

Nevertheless, when Szczepanowski and MacGarvey looked at the oil industry, they saw the potential to transform it into a mining branch organized along the model of industries in Canada, England, Germany, and northern Italy. They saw industrialists, not landowners, taking the lead: entrepreneurs who spurned slow industrial development that was subordinated to the needs of agriculture in favor of rapid change that was driven by the importation of new technologies and new ideas.

Szczepanowski was among the first men deliberately to choose Galicia as the site of a grand experiment in industrialization. He was born in December 1846 in the Duchy of Posen and was thus a subject of the king of Prussia. As a youth, he worked with his father, a railway engineer, building bridges, culverts, embankments, and junctions in Hungary before moving to Vienna to attend the Polytechnic High School.²⁷ After graduating in 1867, he left Austria to travel through western Europe.²⁸ This trip, a bourgeois version of the grand tour, occupied the next thirteen years of his life. After a brief stay in Strasbourg, he moved on to northern Italy, where he visited textile mills, a progressive dairy factory, and various other industrial sites. Almost two years spent in Piedmont left him with great admiration for the architect of Italian unification; years later he wrote, "My dream was to become a Polish Cavour." Eventually, however, he found the pull of Europe's greatest economic power irresis-

tible.³⁰ In March 1869, at the age of twenty-two, he arrived in Londor where he remained with only few interruptions for over a decade. H served as secretary to John Forbes Watson, the director of the departmen of trade and industry in the British India Office in 1870, a position h held for the following nine years. While working in that office, Szczepa nowski conducted economic studies of India, with an emphasis on sta tistical analysis.³¹

During his long residence in the West, Szczepanowski returned to Austria-Hungary only once. In 1873, at the age of twenty-six, he mad his first trip to Galicia, visiting his ailing father, who had moved to Lvi to work for the Archduke Albrecht Railway.³² His father's poor health die



Stanisław Szczepanowski. (Courtesy of the Ignacy Łukasiewicz Memorial Museum of the Oil Industry in Bóbrka.)

not induce the ambitious Szczepanowski to stay, nor did he return upon changed his mind and left England for good. Szczepanowski later claimed to make London his permanent home, and yet within two years he citizenship in 1877.33 At this point, all evidence suggested that he intended his father's death in 1875. Back in London, he decided to accept British province on foot. It was during this tour that he first visited Galicia's tral to his positivist outlook by traveling the width and breadth of the conduct geological investigations, practicing the empiricism that was cen-Institute in Vienna and then returned to the Carpathian Mountains to remained in Lviv. In the spring of 1880, he took a course at the Geological cessitated his resignation and departure from England.34 In December refusal to do so amounted to a withdrawal from British society and nefamine of 1876-1878 as his "expert on Indian economic affairs." His participate in an expedition to India to investigate the effects of the that the Prince of Wales, the future Edward VII, asked him in 1879 to petroleum springs. 1879, Szczepanowski returned to Galicia to visit his mother, who had

materials of a nation."35 along the path of political revolution. Only with economic revitalization, resuscitation, organization, and industrialization of its economy, not ences gained in England convinced him that Poland's salvation lay in the nevertheless continued to exist in the hearts of Polish patriots. Experibirth. His writings make clear that in his mind, his homeland was Poan economist and a scientist into practical assistance for the land of his he argued, "can we make a nation where today one finds only the raw land—a country that, although not represented by an independent state, Szczepanowski's ultimate goal was to convert what he had learned as

centrated on the problems of the economic and social modernization of stead other sources of national regeneration.36 According to historian Anwhat seemed to be suicidal attempts at political revolution, stressing ingress Kingdom (Russian Poland), many Poles turned further away from ernization. After the disastrous January Insurrection of 1863 in the Conpanowski's birth and early education.³⁷ Szczepanowski was critical of a Western model," was especially strong in Posen, the province of Szczethe country and took for granted that this meant development on the drzej Walicki, this strand of "positivism" or "organic work," which "confocus on economic development to the detriment of moral and spiritual Szczepanowski was not alone in stressing economic and social mod-

> nomic transformation, there could be no political transformation.³⁹ mation, there could be no economic transformation; without an ecoolution in every aspect of Galician society. Without a cultural transforeconomic and spiritual rebirth of the Polish nation. He demanded a rev lay not in personal wealth, but rather in the pursuit of a simultaneously an economist and an industrialist, his writings reveal that his inspiration on the model of ancient Greece."38 Although Szczepanowski was himsel "steady and harmonious cultivation of all physical and spiritual power network of musical societies. In sum, Poles should strive to create Jahn's foundation of nationalist gymnastic clubs, and the creation of terized by Johann Heinrich Pestalozzi's school reforms, Friedrich Ludwi; jacket," Poles should look to an earlier generation of Germans, charac tating contemporary Germans, hampered by their "bureaucratic strait from peasant to nobleman, there is a spark of heroism." Instead of imi Poles who were simultaneously "decent" and "heroic": "In every Pole tempts that inevitably ended in disaster. What was needed was a class o look like "a breed of Polish-speaking Germans and Englishmen"—at person." This had led to attempts to create "decent Poles" who would is easy to make a hero out of a Pole, but hard to turn him into a decen development. According to Szczepanowski, popular opinion held that "i

First Galician Petroleum Industry Corporation.41 in the region to make use of a drill powered by a steam engine. In 1889, most modern means of production, he became only the second oilman the company he founded, S. Szczepanowski and Company, became the district, and promptly struck oil in October 1880.40 Always seeking the in Słoboda Rungurska, a sleepy sheepherding village in the Kołomyji 900,000 florins (1.8 million crowns), he quickly set up an oil company mediately set about organizing the Galician oil industry. After collecting would be the key to reviving the Galician economy. Szczepanowski im-During Szczepanowski's 1880 geological tour, he concluded that oi

name; along with his fame came increased attention to the promise of Szczepanowski's success).42 Wanda made Szczepanowski a household day (the disparity in figures is a feature of the widespread rumors of period of exploitation produced between 10 and 70 tons of crude oil a dug manually to a depth of between 90 and 150 meters and in the first of the oil well Wanda. According to widely varying accounts, Wanda was nowski for the success that greeted him in February 1881 with the tapping None of his previous experiences in industry had prepared Szczepa-

storage tanks, pipelines, and barrels to contain and transport the oil that wells like Wanda brought with them harried attempts to conjure up with obstacles. Sudden increases in production caused by hyperproductive new ways in which the process of building up an oil company was fraught oil, intense competition, and skyrocketing land prices. Success revealed would otherwise be lost as it ran into the ground and spilled into water-

sink ever more wells close to your 'Eldorado' and take away your treasure. of barrels, that every day, every hour, you hear about new intentions to generally about the oilman's challenges, Szczepanowski also aired his own quickly, quickest! Spend more money! Spend money on engines, tools, are so greedy for this oil that you cannot sell, leaking out of thousands vexation at the tribulations wedded to success: "My God, your neighbors spend money and buy yourself new hopes and new troubles." Speaking there are no buyers . . . so you need to build distilleries, that is, once again money on a cooper's workshop. Oil flows—there are no barrels and here costs money. Barrels leak, so you either squander oil or spend more tion takes place you must get that oil into barrels and reservoirs, which the negative. "Oil and gold," he explained, "but before that transformalucky strike to make a fortune from oil.43 into gold, but rather the other way around." It took much more than a Flowing oil and flowing gold! Yes, only it is not oil that is transformed fuel, and people. Spend money to build roads, for rail transport.... So then you have to sink new wells yourself under the worst conditions rhetorical question, "For is not flowing oil the same as flowing gold?" in Five years later, experience forced Szczepanowski to answer his own

to expand his enterprise, and was rewarded with high profits from wells profits for the privilege. Nevertheless, he remained optimistic, continued the value of their land. In extreme cases, he paid up to 65 percent of his to lease mineral rights from landowners who were now all too aware of transportation costs. Since he owned no land of his own, he was forced Bohemia and Moravia, but his plans were continually frustrated by high crude oil his wells produced by fabricating lighting oil for transport to extracted from wells, Szczepanowski opened a refinery in Peczeniżyn in 1.4 million crowns) in pure profits a year. Szczepanowski's dramatic story like those in Kucow, which produced 600,000 to 700,000 florins (1.2 to 1882. His refinery was intended to provide a ready consumer of the excess Realizing that the highest profits were gained by refining the crude oil

> financiers, such that all it took was one word in order to acquire relatively had at that time hypnotized everyone, even cold calculators like the Lvi für Handel und Gewerbe. He later recalled that "the petroleum busines bank), and the Lviv branch of the great Viennese bank, the Creditanstal izische Sparkasse), the Galician Mortgage Bank (Galizische Hypotheken 25,000 florins (50,000 crowns) each from the Galician Savings Bank (Gal conversation of only a few minutes."44 He was easily able to acquir and in Vienna, a loan of over 150,000 florins [300,000 crowns] "after "able to get a 75,000 florin [150,000 crown] advance within a few hours nowski himself benefited from creditors' excessive good faith: he wa ubility or technical expertise of the recipients of their credits. Szczepa to get involved in oil, often without closely examining the financial sol that one could not lose. Investors snapped up any and every opportunit fortune through clever investments in an industry in which it appeare prior entrepreneurial experience who had quickly built up a veritabl ignited a petroleum fever throughout Galicia. Here was a man with n

erable conditions lies more with its people than with its institutions, ther and concluded: "if there is a country anywhere where the fault for misof the Economy of the Country, the product of twenty years of research.51 In this work, he compared the quality of life in Galicia with that of Poverty of Galicia in Figures and a Program for the Energetic Developmen tions) and edited the newspaper Słowo Polskie (the Polish word). In 1888 paper organ of the GLPV, published in separate German and Polish edigram."49 He also sat on the editorial board of Naphta/Nafta (the newsin 1890 to serve as an organ for Szczepanowski's "new economic pro newspapers, including the Kołomyja biweekly Pomoc własna (Self-help) that country is Galicia." On every level of governance, whether local Russian Poland, Hungary, Italy, Germany, Belgium, France, and Englance Szczepanowski gained widespread notoriety with the publication of The which he founded in 1889,48 and Ekonomista polski, which was founded he later claimed to have published articles in the financial gazette, Th. in the GLPV. His first experiences as a publicist came in England, when social conditions, Szczepanowski used every means at his disposal to de British Economist,46 while his friends said that he had worked for the Times.⁴⁷ In Austria, he became a regular contributor to a number o fend the industry. He was a member of the Trade Society and an arbite A tireless advocate of oil as a vehicle for the improvement of Galicia

but also political powers that enabled Poles to defend their interests and of it, but we possess the invaluable privileges of free civic activity, privias the material ends: "We in Galicia . . . have a miraculous and rich naunwilling to make use of them." The means, he argued, were as important of the rights and privileges of titled people who either are unable or in the decennial negotiations to renew the Ausgleich between Austria and colleague Schreier, he was able to expose the laxity of border controls. border as "crude oil" at much lower tariffs), discovered by his friend and oils that were easy to remove in order to be carried across the Austrian gling of a Russian falsifikate (a refined oil that was discolored with heavy in doing so. For example, when Szczepanowski publicized massive smugthose of their province when the central authorities were not interested leges without which even the wealth of El Dorado would be loathsome."51 ture. We have lacked until now the people who were able to make use district, or provincial, he claimed that "at every step we meet examples Hungary (which set tariffs on imports to both halves of the empire).52 Their agitation made the combating of the Russian product a key topic These privileges included not only the rights of assembly and expression,

thing of a Polish messiah. From among his immediate circle of friends aspiring engineers Wacław Wolski and Kazimierz Odrzywolski, who later as career and calling. These included bank director Franciszek Zima and to talented young Poles looking for a vocation that would serve equally of Galician industry; even his enemies never thought to accuse him of ervation, Szczepanowski poured all of these funds into the development approved most of these loans, earned eighteen thousand crowns a year), crowns (at a time when the director of the Galician Savings Bank, who truly impressive amounts of capital, generating a swell of investment in characterized as "democratically leaning," Szczepanowski was able to raise and acquaintances, and from a larger group of Poles who were generally the confidence and loyalty of dozens of men who viewed him as somebecame his most faithful financial benefactors. Szczepanowski inspired pursuing personal gain or a luxurious lifestyle. indicating an enormous growth in the scale of investment.53 Without resthem guaranteed by friends and colleagues, ran to over eleven million the industry led by his own example. By January 1899, his debts, all of Szczepanowski's involvement in the oil industry served as a clarion call

belief in the primacy of economic improvements. Nevertheless, when he Szczepanowski initially eschewed political activity, consistent with his

> an opportunity to rescue Poland. characterizes modern civilization."54 In short, Szczepanowski saw in oi it the embryo of independent spiritual and economic development tha Galicians "make our society equal to the civilized nations and graft onto program. In turn, his economic program was a means of helping Polis political activity was intended only as a means of furthering his economi of positive, profit-bringing work." Szczepanowski always insisted that hi country from the area of worthless parliamentary debates to the region believed that "it was high time to lead the economic politics of th only secondary paths to his stated goal, a vibrant Galician economy. H clude that his election was symptomatic of a growing recognition of th nity to reveal briefly [his] views on public affairs." This led him to con the successful generation of provincial wealth. Political channels offere ineffectiveness of "complicated political calculations" in the absence of was with the oil industry. In the introduction to The Poverty of Galicia and a member of the Polish Club, Szczepanowski's primary identificatio sition—he did agree to serve. Even when he was a prominent politicia had won from petroleum affairs" before he had even had the "opportu he claimed that he had only been elected on the basis of the "fame [h ϵ both cases, he proudly insisted, without having campaigned for the po 1886 and a few years later to the Galician Provincial Diet in Lviv—i was elected as a representative to the Imperial Parliament in Vienna i

tional oil industry's "best-known supporters," however, Bergheim was Mexican Oilfields, the Cuban Petroleum Company, Tampico Oil, and the of International Maikop, the Nigerian Bitumen Corporation, the Anglothe time of his death in an automobile accident in 1912, he was chairman indirectly responsible for one of the greatest events in the history of Société Française de Pétrole. Long before he became one of the internalonial Office to grant him a near monopoly over prospecting rights).55 A plomacy and perseverance, he was able to convince officials of the Cowhose talent and ambition led him to search for oil in Hanover, Bavaria mark. John Simeon Bergheim, for example, was an English enginee which an ambitious and inspired entrepreneur could quickly make hi Romania, Galicia, southern Russia, Mexico, and Nigeria (where, with dithey were lured by a province described as an industrial wasteland, in and a fortune. Foreigners from beyond the reaches of greater Poland and the Austrian Empire were not inspired by patriotic considerations. Rather Others saw in Galicia's "black gold" an opportunity to make a nam-

Galician oil: the arrival of the young Canadian driller, William Henry MacGarvey.

MacGarvey had begun his career in the oil industry in Petrolia, Canada, sometime around 1862.⁵⁷ He rose to prominence as local mayor and owner of eighteen producing oil wells, in addition to a store.⁵⁸ In 1881, he was recruited by Bergheim to try their luck in Ölheim, Hanover.⁵⁹ In 1882, MacGarvey moved to Galicia and offered his services as a drilling operator. In 1883, the two men joined forces again, founding the petroleum company Bergheim and MacGarvey.⁶⁰ Principally a drilling expert during his first years in Galicia, MacGarvey introduced the Canadian cable drilling system to Galicia in 1884, a moment that marked Galicia's entry into the world of modern petroleum mining.⁶¹

opened old ones long thought dry. MacGarvey imported dozens of Cafore.63 This not only sped up exploration in new oil fields, but also reinto the earth in twenty-four hours and easily reached depths of over timeters that had been the local norm, drillers could now delve 24 meters ously unheard-of depths and unimaginable speeds. Instead of the 20 cenworking in Enniskillen, Canada, in 1866,62 allowed exploration at previdrilling system, with which MacGarvey had first become familiar while oil to be had, since they could no longer search for it. The Canadian tapped and exhausted, operators had to assume that there was no more the shallow beds that could be reached by digging or hand drilling were had remained rare because of the limitations of local technology. Once tion in the Galician oil basin. technique to suit local geological conditions, led a technological revolunadian drillers in addition to new equipment⁶⁴ and, after adapting the 1,000 meters where 150 meters had been the limit only a few years be-Although there had been some drilling before MacGarvey arrived, it

Borysław, which later became synonymous with the oil industry, was of little interest to oilmen at the time MacGarvey first came to Galicia. The entire region had been thoroughly explored in the search for ozokerite. Using MacGarvey's techniques, drillers discovered that there was an entire bed of oil approximately 150–200 meters underneath the old wax mines. This territory had initially been unavailable to exploration for oil because it had been controlled by large wax extraction companies such as the Compagnie Commerciale Française (which had taken over the mines of the defunct Société Française pour l'Exploitation de Cire Minerale et Pétrole) and the Galician Credit Bank, which viewed oil ex-



William Henry MacGarvey. (Courtesy of the Lambton Room, County of Lambton [Ontario] Libraries, Museums, and Cultural Services Department.)

started drilling for oil, total Galician production was 132,000 tons; only of oil deposits in Borysław, MacGarvey was thus responsible for an unin the empire. In the first ten years after his arrival in Galicia, MacGarvey making Borysław far and away the most significant source of petroleum ten years later, Borysław's production alone accounted for 560,000 tons. precedented increase in Galician production. In 1894, the year he first traction unfavorably.66 As the first person to discover this second stratum drilled 370 boreholes with a total depth of 100,000 meters.⁶⁷ But Mac-Garvey was not satisfied as a drilling operator.

and prestige of his opponents. He did not hesitate, for example, to appeal he sued. When he lost a suit, he appealed without concern for the power nation was not lessened by these obstacles. When his access was denied land for which he held a contract was challenged. MacGarvey's determimining laws, it was not always clear who held title to properties and their with landowners to get his fancy machinery in place. Even with the new fees.68 Forging ahead was not always easy for MacGarvey. He had to fight petroleum produced by his competitors in exchange for hefty storage also produced barrels and storage containers, set up pipelines, and stored repair of drills, engines, and various tools needed for the oil industry. He built and maintained refineries and factories for the manufacture and ploration and drillings, he also acquired control of extraction rights and in production itself, but in addition to overseeing and carrying out extion, the key to his unparalleled success. MacGarvey continued to invest leagues in Galicia could match: his is a rare example of vertical integrasaid that the oilman's best motto was one derived from Rockefeller's phiright to set up a steam engine and a steam boiler on his estate.⁶⁹ He later bishop, Dr. Łukasz Ostoja Solecki, when the latter challenged MacGarvey's to the Ministry of the Interior for protection against the Roman Catholic mineral rights, and occasions arose on which MacGarvey's right to use losophy: "Do unto others as they would like to do to you, but do it MacGarvey understood the oil industry in a way that few of his col-

ered certain to return oil ranged from 3,000 to 4,000 crowns, in addition ranging from the Galician Credit Bank to individual villages.⁷¹ By 1901. all over the province. Multiple contracts were drawn up with lessors to 20 percent of the extracted crude gross. Away from the anticline, where the cost of mineral rights to a plot of land in a part of Borysław consid-Throughout the 1890s, MacGarvey's company acquired mineral rights

> not reserved under the Imperial Mining Prerogative" from competitor or had been unable to do so profitably. In one case, he purchased th rights from other companies that had chosen not to make use of then oil was less certain would sell for 600 crowns and 12 percent of the gross. for the astonishing sum of 2,083,200 crowns.73 rights to explore for "naphtha, oil, mineral wax, and all other mineral High prices did not deter MacGarvey, who also purchased exploration success was most likely, rights to a plot of the same size in regions wher

used to publicize the benefits of MacGarvey's patented products. Pur to oil production in the province. The GLPV's print organ, Naphta, wa tracts into customers of his patented machines and drilling tools.74 niques served to convert even MacGarvey's competitors for drilling con ported news stories reporting on the benefits of Canadian drilling tech powerful figure who took part in all meetings and conferences relating leader in the oil industry. He, too, was an arbiter in the GLPV and Like Szczepanowski, MacGarvey was quickly acknowledged to be

oil, refined petroleum, gasoline, lubricating oils, paraffin, steam drilling a capital of 10 million crowns and ran with equipment and tools and on cent dividends in 1900.79 MacGarvey himself.78 The Carpathian Company offered investors 15 perable electric cranes, and eccentric drilling bits that had been patented by engines, drilling rigs, boilers, pumps, core drills, winding machines, portwater power in the strength of 2,800 horsepower, and produced crude Carpathian Company employed 2,400 workers, owned steam engines and refinery in Glinik Maryampolski.77 By the early twentieth century, the kilograms of crude oil, 17.5 million of which were refined in its own of existence, the new joint-stock company produced nearly 35 million property that had been purchased for 8 million crowns.76 In its first year Borysław and Tustanowice.75 The Carpathian Company was founded with a village near Gorlice in western Galicia, and it had branch works in in Vienna, its machine shops and foundry were in Glinik Maryampolski henceforth the Carpathian Company). The company's headquarters were MacGarvey (the Galician Carpathian Petroleum Joint-Stock Company Galizische Karpathen-Petroleum Actien-Gesellschaft vormals Bergheim 8 became one of the leading corporations in the Galician oil industry: the Bergheim transformed their private firm into a joint-stock company tha After a decade of steady growth, on 4 July 1895, MacGarvey and

Canadian journalist Gary May has devoted an entire chapter of a book

and his family to a life in Austria. By bringing his family with him to citizen of the Great [British] Empire" he clearly had committed himself cades in Galicia. MacGarvey still described himself as "a Canadian and a an explosion of pride. Although at age sixty-seven, after nearly three detroleum King of Austria." MacGarvey's exploits were popular fodder for on Canadian oil workers abroad to MacGarvey, whom he calls the "Penaled that Austria was his new home.80 1895 to the nephew of the German count Ferdinand von Zeppelin caused local newspapers in Petrolia, Canada, where his daughter's marriage in Europe, he did what few of Canada's "hard oilers" chose to do and sig-

drilling, and extracting in ninety-seven different towns and villages in tion of metals, engines, tools and machines, glass, clay, wood, leather country"—beating out other Galician industries, including the producdustry is and will remain absolutely the most important industry in the more oil to be refined. In 1900, Austrian and Hungarian refineries treated 347 million kilograms of crude oil in 1900.83 More oil production meant drilling, and 16 had given up their business.82 Active companies produced Galicia. Of those, only 120 had actually extracted oil, 34 had begun tion.81 In 1900, there were 1,722 different petroleum companies exploring textiles, paper, and foodstuffs (including liquor), chemistry, and construceries. From 1872 to 1901, fifteen new petroleum-refining joint-stock comlicia.84 As rates of production increased, so did the founding of oil refin-390 million kilograms of crude, 84 percent of which originated in Galead. By 1886, the factory inspector could claim that "the petroleum inaverage of 20 percent from 1897 to 1902.85 Floridsdorf refinery offered dividends of 25 percent in 1896 and an annual founding capital. These companies offered astonishing rates of return: the panies were created with a combined total of 33.7 million crowns of An abundance of other drillers and investors followed MacGarvey's

could be equally great calamities. After it had been drilled to 304 meters. which owned Jakób, an explosive gusher that proved that great successes ated the "Schodnica" Actiengesellschaft für Petroleum-Industrie in 1894. Anglobank, became directly involved in the Galician oil industry. It cremany Austrian and foreign banks, the Anglo-Österreichische Bank, or of the Anglo-Österreichische Bank's well Jakób in Schodnica in 1895. Like riod in oil exploration, it was not publicly inaugurated until the opening Jakób initially produced 1,000 tons of oil a day (fourteen times as much Although technological innovation laid the groundwork for a new pe-

> who used the Stryj's water for cooking, drinking, and laundry, as well as the petroleum lake Jakób created also distressed local farmers, women could calculate how many tons had been lost when, in the initial outburst gether with its neighboring well, Cäcilia, it produced 8,000 tons of oil it fishermen, and, presumably, many fish. jnocha called the loss of so much oil a "tragedy" for the producers.87 Bu oil had streamed into the Stryj River. Geology professor Władysław Sza sudden gusher that flooded a territory half a kilometer in diameter in oil of its productivity and the local environmental catastrophe caused by the 1896, but it had the potential to have produced much more. No onas the highest estimates for Wanda). Internationally recognized because Jakób was Galicia's most famous and most productive well to date.86 To

into an iron reservoir when the gas pressure that collected in the reservoir point where lighting a fire in many private houses had to be forbidden way turned every residence into a dangerous oil depot; it came to the ulation scooped the oil out of the gutters, brought it home, and in this dug a few meters deep and wide." Attempts to collect the petroleum into could be successfully covered, all possible measures were taken to collect streets, etc., and in this manner came into proximity with various fire scribed the cause for concern: "At the beginning of the eruption, before a considerable danger of uncontrollable fires, making everyone in the tore its roof and lifted it into the air."88 The drill hole had hardly been blocked and the oil from the same directed tivity tended to increase, rather than decrease, the risk. "The poor popreservoirs notwithstanding, the factory inspector feared that human acthe flowing petroleum; among others, sixty provisional oil reservoirs were fear of the outbreak of a general fire in Schodnica. Before the drill hole (steam boilers, smithies, private houses, etc.) so that there was constant the drill hole could be plugged, the oil poured into streams, gutters, onto region vulnerable to loss of life or property. The factory inspector de-Beyond that, the film of petroleum that covered water and land created

flowing into rivers and streams, the oil not only killed fish in those wamade agriculture in its immediate proximity hazardous. Second, by it) for hundreds of yards in all directions with a blanket of oil, a gusher environment. First, by covering the land (and the vegetation growing on oil production threatened the lives and property of those in its immediate terways but also polluted the fields and meadows that they irrigated The factory inspector's report represents a catalog of the many ways

oil basin. "Thousands of uncovered shafts are the cause of many acciaster, but appearing in his reports elsewhere, was the effect of the hunature in which murdered corpses were routinely hidden in them).90 with water (leading to the development of a new genre of popular literpedestrians and were the cause of numerous drownings when they filled doned pits, left unguarded and uncovered, posed a danger to unwary dents. Even if an owner is so conscientious as to cover his shaft, the dreds and at times thousands of holes dug in the ground throughout the not mentioned by the factory inspector in the context of the Jakób discessful for long and regularly led to explosions. A fifth category of damage Fourth, the effort to contain gases in man-made vessels was rarely succause of arson, a perennial fear during recurrent worker disturbances ignorance, carelessness, or both, as the factory inspector feared, or beterference. Humans could cause fires either unintentionally because of ning, considered a "natural catastrophe," or the product of human inproperty. The risk of fire was ubiquitous. It could be the result of lightstarted quickly and burned long and threatened both human life and during periodic floods. Third, oil "run wild" posed the threat of fires that [wooden] cover is simply stolen overnight and not replaced."89 Aban-

off in the living rooms of kerosene's first consumers. So it might seem century. Then and now, catastrophes occur at every stage in oil's extracoil spills that routinely made headlines at the turn of the twenty-first of the oil industry, from the ancient military use of pitch set aflame to acid rain when burned.91 Today these considerations may suggest to some safety and economic security. ject—if not in the interests of nature, then in the interests of their own obvious that wherever oil extraction begins, those around it should obproduction to famous spills, explosions at the point of sale, and fires set tion, distribution, and consumption, from oil set ablaze at the point of interaction with petroleum at every historical stage of the development aster seems natural and universal. Calamity has accompanied the human landscape of Galicia. The connection between oil and environmental disthat the oil industry was not always a boon to the physical and social damages marine ecosystems when spilled into water and contributes to acts as a herbicide and reduces soil fertility when spilled on land, fatally Research conducted in the 1970s and 1980s has demonstrated that oil

"enlightenment" offered by oil came at a heavy price in Galicia. The The historical record furnishes ample proof that the "illumination" and

> ambitious young men far and wide. seemed to hold new promise of endless riches—a promise that tantalized of interest in Galicia's magnificent new source of wealth. The hopes o seemed confirmed. Even territories that had been given up as exhauster Galician soil had been underestimated and in reality was boundles Galicia's many oil investors were justified; suspicions that the wealth o licized spill, and every fire caused by too much oil spurred another rus industry. On the contrary, every catastrophic explosion, every widely pub ment simply does not appear in any of the debates about the Galician o The idea that the environment was itself a victim of economic develop disasters caused by man's inability to control natural phenomena fully and human action that caused loss of life, limb, or property—that is employed, it referred to an unfortunate conflation of natural phenomen against the industry as such. When the phrase "natural disaster" wa industry. Disasters inspired outrage and protest, but it was not directe damage, injury, and death. Yet nary a voice was raised against the o production and distribution of oil led directly to pollution, propert

most of the younger engineers and entrepreneurs (including Szczepafirst to use a steam engine for drilling.95 But by the mid-1890s, the trade in Pennsylvania, he moved to Galicia in 1867, where he became the was born in Danzig in 1842 and emigrated to the United States during Waldeck was drawn to Galicia to work with MacGarvey in 1884.94 Faucl mans who went to the United States for training before settling in Galicia business. Robert Waldeck (1856-1901) and Albert Fauck were both Gersons Herbert and Carl (born in Krosno) followed their father into the oi in 1885 and took a position in MacGarvey's Carpathain Company. Hi nowski's own son and namesake, Stanisław Wiktor Szczepanowski) were Galician oil industry could boast two generations of modern oilmen, and the Civil War. He acquired U.S. citizenship, but after learning the drilling send, Neil Sinclair, Elgin Scott, George MacIntosh, his son, Carl, and thei MacGarvey's brothers, Albert and James, joined him, as did Alvin Town is not always possible to ascertain if they came at MacGarvey's request temporary of MacGarvey's, born in Canada in 1855. He moved to Galicit relatives, George, Cyrus, and Jacob Perkins.93 Jacob Perkins was a con sion in investment and production did come from Canada, although i Petrolia to recruit them.92 A good number of the men behind this explo advertising for drillers in local papers and sending his brother back to In the mid-1880s, MacGarvey desperately sought help from Canada b

Poles who had been handpicked by more established oilmen like panowski unwavering loyalty. drillers and in some cases investors in their own right, and offered Szczeists.96 These men received their training under his wing, became skilled overseers and offering employment to many young engineers and chemernment inspectors credited Szczepanowski with insisting on well-trained to employ the cheapest possible labor, even in managerial positions, gov-MacGarvey and Szczepanowski. Whereas other industrialists were reputed

chemist in Szczepanowski's refinery in Peczenizyn. Later he worked as a graduated from the Technical Institute in 1885, and then worked as a they moved to Galicia. Young Odrzywolski studied chemistry in Cracow studied mechanical engineering in Vienna and then joined the Austrocontemporary as a "noble man and an ingenious young engineer,"99 chose to bring all its technical experts from Galicia. Upon his return, he tina led by Dr. Rudolf Zuber and financed by an Argentine company that drilling engineer in Szczepanowski's oil fields in Słoboda Rungurska ipation in the January Insurrection of 1863 forced the family to emigrate Odrzywolski was born in Congress Poland, but when his father's partic-Hungarian navy. Before becoming Odrzywolski's business partner, he towns in Galicia and even Romania.97 Wolski, who was described by a ration and production in Borysław and Tustanowice, as well as in other and Wolski founded a company, Wolski and Odrzywolski Mining and From 1886 to 1893, he joined a petroleum-seeking expedition to Argen-(1860-1900) and his brother-in-law, Wacław Wolski (1865-ca. 1919) Galicia, Russia, Silesia, Westphalia, and the United States. patents, including one for a hydraulic percussion drill that was used in worked for Szczepanowski. An accomplished inventor, he took out several Industrial Works, based in Schodnica. They soon engaged in oil explo-Representative of the new generation were Kazimierz Odrzywolski

certain rewards came equally certain perils. Mining for wax was the most especially given the great expense of alternative sources of wax. With to provide cheap mineral-wax candles at great profit to their producers. Borysław's ozokerite deposits were the largest in the world and promised It was the wax industry that first attracted large-scale foreign businesses in the treatment and refining of ozokerite that occurred in the late 1870s attraction of investment in the wax industry was heightened by advances irrational and troubling element of the petroleum industry, at least to Oil in its liquid form was not the only target of investor attention. The

> small plots of land, which they scoured for any wax deposits. They ex of small producers, most of whom were reported to be Jewish, controlled ings, leading to "the sinking of public roads and houses."99 crossed under one another's territory and under public roads and build panded their mines with poorly monitored use of dynamite and criss was hazardous to workers and destructive of the environment. A plethor outside observers. The wax industry, as it was organized before the 1880s

as Wolanka is now mined properly and profitably by the French Comand it has begun to renovate mining in a completely rational fashion, just the Galician [Credit] Bank acquired the greater part of the New World then Borysław will become a mining object unique in its type. Recently find means of overcoming the difficulties of excavation in Borysław, and comed large-scale foreign investment. "Mining technology will doubtles: technical obstacles posed by such dangerous terrain. Thus Walter wel needed were large companies that would be capable of overcoming the out after months of excavation." Mining experts agreed that what was with such violence that workers have no time to flee and are only pulled hurl out wax from a depth of 160-180 meters all the way to the surfact missioner Heinrich Walter described the problem, "Often shafts suddenly particularly unstable section of Borysław optimistically called "the Nev oil; the deeper one dug and the richer the terrain, the greater the risk. I World" (Nowy Świat) housed enormous nests of wax. Chief mining com Careless exploitation only exacerbated the dangers inherent to wax and

shaft was dug, and galleries radiated outward from its core. extracted, introducing a central-shaft system, in which only one vertical basin to exploit wax. They promised to revolutionize the way wax was Pétrole) were the first two major companies to move into the Borysław (formerly the Société Française pour l'Exploitation de Cire Minérale et The Galician Credit Bank and the Compagnie Commerciale Française

built explicitly to respond to the sudden opening of oil fields in Słoboda railroad connecting Kołomyja and Słoboda Rungurska, for example, was used to transport workers and visitors, socialists and soldiers. The local convey oil from producers to refiners and consumers, but could also be infrastructure that accompany industry: new railroad lines were built to with it advantages for the towns and villages in which they made their homes. Some of these were by-products of the need for developments in The arrival of more serious wax and oil production companies brought

ways before became eager to see stations placed near their holdings. 103 by connecting them to refineries.¹⁰¹ One of the first complaints of pro-When the Carpathian Company built a refinery in Glinik Maryampolski bearing property, landowners who had never been concerned about railsence of a local rail station could significantly diminish the value of oilwas one of the first insufficiencies they lobbied to fix.102 Because the abduction region was the absence of a convenient railroad station, and this it also built a train station on the Gorlice-Zagorzany line and a post office fessional mining engineers who moved to a new exploration and pro-(both opened in 1898) and installed telephone service.¹⁰⁴

allowed both production and refining to take place on her property. She by horse and carriage, "for in this fashion the manor horses and coachmines to the refinery, but preferred instead to have crude oil delivered did not, however, allow the construction of a pipeline connecting the ployment upon locals. Pani Straszewska, the owner of an estate in Lipinki, man found employment."105 Even the backwardness of some enterprises bestowed lucrative em-

a "large petroleum factory that can be counted among the best-equipped of his refinery: "It is equipped according to the newest advances in techstallation and management, demonstrating that modernization was good breed of noble and morally elevated Poles. Szczepanowski believed that and Odrzywolski, providing employment was not enough to create a new promoting elementary education. 108 and a reading room for his employees next to the factory, 107 as well as room and board from his personal funds. He also established a library kept a doctor on staff, bearing one third of the expenses of the doctor's health insurance association for his factory workers, built a hospital, and when they were directly ordered by the factory inspector, he set up a rectly. At a time when few employers had any interest in doing so, ever influences."106 Szczepanowski also looked after workers' health more diparticular care to protect the workers as much as possible from harmfu nology by its owner, himself a capable technical expert; he has taker rope." Szczepanowski's own skills were credited for the laudable condition not only here [in Galicia], but, I am justified in assuming, in all of Eufor both business and workers. According to the factory inspector, it was tablished his refinery in Peczeniżyn as a model of modern factory inpansion. In keeping with his vision of his ethical responsibilities, he eshis duties as an industrialist extended beyond profits and economic ex-For great Polish patriots like Szczepanowski and his disciples, Wolski

> employees) was not simply a selfless act of community improvement, but viding for the religious and secular education of local children (i.e., future the values held by the employers themselves.¹¹² rather a rational policy, in that these children were thus raised to adopt managing the relationship between employers and their workers. Proments fit into a greater trend to engage in paternalistic techniques of Równe for students enrolled in the school.111 These and other improvevided free housing and lighting in the neighboring villages of Bóbrka and Galician Provincial Committee. Mine owner Victor von Klobassa protuminous minerals."110 There was another school to train drillers in the children to create capable overseers and managers for the mining of bivate mining school in October 1888 in Borysław, which had the goal o orphanages.109 The Galician Credit Bank sponsored the opening of a pri engines in Schodnica, they also founded two schools and financed ; Canadian method in Wietrzno (in western Galicia), subsidized by the "educating the more intelligent and educated mining workers and their ganized an agricultural cooperative. They purchased the newspaper Słowi Roman Catholic church, created a health insurance cooperative, and or Polskie and had plans to found a large educational institution and severa When Wolski and Odrzywolski founded a factory to produce drilling

meager, and government officials were surprised that the workers did not all. Their working conditions were dark and dangerous, their pay was peasants even when it appeared to offer them great opportunities. For Contemporaries were aware that the oil industry put great strains on loca take to more radical protests of their lot. many, a life spent working in the wax mines and oil pits was no life at did not bring only benefits to the common folk who were touched by it Of course, industrialization, even when it was successful for businesses

mors of the bank's insolvency abounded and caused a devastating run on shareholders of the Galician Savings Bank broke into a panic when ruin the Austrian oil industry's greatest scandal. On 14 January 1899, the volved of the potential cost of trying to make one's fortune in oil. In unprecedented investment, a prominent case of failure reminded all investments that characterized the oil industry. In the midst of a decade of damage bad luck could inflict on those who made the speculative in-1899, Szczepanowski, that paragon of Polish national virtue, was involved from above the ground. No one, however popular, was immune to the they could also be treacherous to those who ran them and financed them If the oil mines brought tangible peril to the men who worked in them.

panowski's debts had reached nearly 2.4 million florins (4.8 million appalling levels, ordered a "restoration to profitability." By 1895, Szczegaged and that the debts accrued by Stanisław Szczepanowski had reached board, having noticed that a significant portion of its reserves were mortlation of the depositors' trust. The rumor got started when the bank's money on credit to businesses threatened with bankruptcy-a clear viothe bank. News had leaked that the bank had lent exorbitant amounts of

order to hide the scope of Szczepanowski's loans. Further evidence of created fictional accounts without the knowledge of the bank's board in owed the bank nearly 5.5 million florins (11 million crowns).115 As Szcze-Szczepanowski's debt and Zima's foolish lending had been revealed. He and Szczepanowski from the ruin that would have struck them both if panowski slipped further into debt, Zima took steps to protect himself bility to capitalize on it profitably, by 31 December 1898, Szczepanowski ministration, a conspiracy with the goal of preserving the oil industry in ered the risk of illegally granting him [Szczepanowski] credit as almost a ciszek Zima, who continued to lend him money in the hope that Szcze of Polish industry enthralled the Galician Savings Bank's director, Fran-Wolski and Odrzywolski put up 7 million crowns on his behalf.116 Szczepanowski's charisma came when the news of his debts broke, and Polish hands."114 Because of Zima's generosity and Szczepanowski's inapatriotic conspiracy against the servile conservative mood of Galicia's ad-England. One Szczepanowski scholar has speculated that Zima "consid-Liga Polska. He had met Szczepanowski during the latter's residence in pated in the January Insurrection of 1863 and was a member of the secret land's salvation. Himself a Polish nationalist patriot, Zima had particirisks necessary to protect Szczepanowski, who represented to him Popanowski could thus save his enterprise. Zima seemed willing to take any Even under these circumstances, Szczepanowski's reputation as a leader

even before the trial began. The press latched on to his attachment, at cused of complicity in fraud for encouraging Zima to falsify the books. age seventy-two, to a young woman named Marie Stephanie Fuhrmann Szczepanowski destroyed Zima's reputation and precipitated his death wolski to give a security under false pretenses). Szczepanowski was ac The scandal that followed the revelation of the extent of his loans to (for falsifying the bank's books and for convincing Wolski and Odrzy-When the story broke, Zima was accused of fraud and embezzlement

> with the Galizische Landesbank worth another 45,000 florins (90,000 crowns) by the time of the scandal. Zima died in prison on 4 Augus acquired a house worth 40,000 florins (80,000 crowns) and an accoun himself. The coroner claimed that he had died of a heart attack. 117 1899 under circumstances that led to speculation that he had poisoned Fuhrmann, who had been a pauper a few years earlier, had mysteriousl

and the epithet "Polish Panama" replaced "Polish California" in the parisons were made between Szczepanowski and Ferdinand de Lesseps daily. The negative publicity cast a shadow over the whole industry. Com-Stańczyks, 118 decidedly hostile to Szczepanowski) also reported on the tria paper Słowo Polskie (owned by Wolski and Odrzywolski and favorable to reported on the latest news received by telegram from Lviv. The Lviv informed by two updates a day: both the morning and evening edition Szczepanowski) and the Cracow paper Czas (a conservative organ of the teresting testimony. For the first few weeks of the trial, readers were kep the trial's six-week duration, including long transcripts of particularly in liberal Viennese daily Neue Freie Presse published daily reports throughou from 1 October to 9 November 1899, in all its harrowing detail. The All of the monarchy's major newspapers covered the trial, which rai

vinced them to put up a security of 550,000 florins (1.1 million crowns).12 and offered to take responsibility for his debt. In early 1896, Zima conwere anxious to spare him from the scandal that bankruptcy would cause who misinformed him (politics kept him in the capital and away from panowski from impending ruin. But not even the unflinching loyalty of his supporters could save Szczedrillings had better prospects than they did. 120 Wolski and Odrzywolsk the day-to-day oversight of his companies) and led him to believe that Szczepanowski's businesses were being run by untrustworthy characters diately, even before he learned of his debt. Łodziński was convinced tha Bolesław Łodziński, the director of the Handelsgesellschaft in Gorlice bankruptcy in 1893. His friends Wolski and Odrzywolski, wanting to Łodziński recommended that Szczepanowski declare bankruptcy immerescue him from ruin, turned over the management of his business to Szczepanowski's personal finances. He had already been threatened with The trial revealed the extent to which chaos had come to characterize

a decision he made in 1894. Under enormous pressure from Count Ka-If there is an element of the tragic in Szczepanowski's story, it lies ir

champions thus was driven to ruin when he lost faith in his own product mines" were considered "absolutely worthless." 125 One of oil's greates: time his debt was exposed, his "seventy-eight shares in Galician coal ferred to get rid of Schodnica rather than the coal mines." But by the decision: "I was mistaken regarding the value of the coal mines and prerowa, which never produced any profit. In his trial, he explained his in order to protect his investment in coal mines in Myszyna and Dzuentire debt.¹²⁴ To make matters worse, Szczepanowski sold the oil fields florins (30 million crowns), more than enough to cover Szczepanowski's 189,360 tons.¹²³ By 1899, these shafts had come to be worth 15 million Schodnica; in 1894, 21,000 tons; in 1895, almost 84,000 tons; and in 1896, covery of Jakób.122 In 1893, 10,000 tons of crude oil were produced in stocks and 60 percent in cash) only two years before the explosive disto the Anglobank for 1 million florins (2 million crowns; 40 percent in shafts in Schodnica, an unexplored but promising oil field near Borysław, zimierz Badeni to repay a portion of his debts, he sold his petroleum

Szczepanowski portrayed himself as the hapless victim of his own ignocontempt for some of the values that they required. During the trial emphasis on investment, infrastructure, and industry was combined with what one historian has called a "strong anticapitalist bias," 126 Thus his revival of the nation, he combined a call for rapid industrialization with zation was possible only if it was built upon the foundations of a moral nowski's character seemed ill suited to the task. Believing that modernimodernization required that he become involved in business, Szczeparance rather than a conniving embezzler. According to his testimony: Although his advocacy of rejuvenation through industrialization and

throughout Galicia attracted numerous foreigners and caused the detechnical obstacles one had to overcome. The oil fever that prevailed new, very productive petroleum sources. However, there were great When he returned to Galicia, he got involved in trade for the first time. stand how to protect his own interests. vestments that turned out to be a great loss of capital. Now, since his fendant to undertake geological investigations, deep drilling, and infortune initially. A new California arose in Galicia. One constantly found funds did not suffice, he tried to get advances. . . . He did not under-.. In the practice of this new profession, he was truly met with good

Szczepanowski testified that fate had played against him. Just when it looked as if he was going to start making some money, he was untairly

> one month in the delegations, thus spending nearly three-quarters of the year on activities not directly related to running his business. 128 ever valuable his political activity may have been in the long term, it kep own, under his wing and stood up against customs abuses. His parlia Vienna, another month and a half in the Galician Provincial Diet, and him away from his oil business. He spent six months of the year in not allow themselves to be mixed."127 Szczepanowski explained that how former colleagues (Biedermann and Company). Politics and business die mentary career, however, led to a change in his relationship with hi There he took the interests of the petroleum industry, and thus also hi was elected to the imperial Parliament without having run for office them were in vain. In the midst of this mess, "The defendant, as he claim: tempts and those of his fellow oilmen to get the government to protec hampered by competition from smuggled Russian distillates. All his at

vested 90,000 florins (180,000 crowns), but, given the high cost of lanc had no experience in running such an enterprise. He and his family inearlier resolution—to found a company on a large scale,"129 although he Frenchmen, Spaniards, and Germans to Galicia, he dared—against his it turned out, that there are no rules. In the tremendous petroleum comtically smell oil, misplaced hopes in oil deposits invisible deep below the a few early lucky guesses, which gave him the feeling that he could prac leases, he soon found that he needed ten times that much capital. motion of the early years, which brought Englishmen, Americans knowledge that "when it comes to discovering oil territory, the rule is, a Earth's surface proved that he was no diviner. Szczepanowski had to ac After thirty-three days in court, a jury of Szczepanowski's peers (mer-To make matters worse, Szczepanowski's luck began to run out. Afte

all counts. But Szczepanowski was a broken man; he died less than a year later, a month before his fifty-fourth birthday. 130 chants, businessmen, and civil servants) acquitted him unanimously or

olution that accompanied it. Szczepanowski's defenders included celebwithin a partitioned Poland and of social reform and the economic revtions of Polish patriotism in an age of fragile reconciliation to autonomy whims of fortune. Rather, Szczepanowski's rise and fall were tied to queshonor of the oil industry was engaged in the proceedings of the trial."131 engineer Stefan Bartoszewicz recalled, "At that time, we all felt that the Szczepanowski alike linked his fall to greater issues. In his memoirs, oil This was not merely a question of fiscal incompetence, greed, or the During the trial and in its aftermath, defenders and opponents of

children of his spirit and his creativity."135 of outsiders, indifferent to Poland's fate: "Foreign capitalists block[ed] his arrival of the innkeeper, for the specter of misery or earning a daily wage ocratically inclined industrialists. Odrzywolski attributed his downfall to nowski's Nędza Galicyi had been the inspiration for a generation of demof greatness brought down by the mediocrity of the world around him, and Władysław Rabski, who referred to him as a "tragic hero." A young that which Szczepanowski created and took such pains to cultivate: the path, paralyzing and truly wishing to destroy in the bud and annihilate peared." His fall was caused not by his own weakness, but by the greed from foreigners had already begun to sneer at us. He came—he apthe center of Europe: "We waited for him as a hungry worker awaits the he was lauded as a man with the will and the ability to return Poland to his failure to account for the baseness of other people.¹³⁴ At his funeral, the "greatest of contemporary Poles." 133 Wolski claimed that Szczepaassociate compared him to Job. 132 His friends argued that he was a man rities from Russian Poland, such as the renowned author Bolesław Prus

crisscrossing the Polish landscape—this is what would allow the land to ulary of enlightenment and education, the industry's defenders now can only vegetate from day to day, never blossom."136 From the vocabnot supported by an industrial branch's exploitation of the soil, then it conditions are so difficult, the expenses so enormous, that if a farm is panowski's mines, his vision of derricks, steam engines, and pipelines turned to the vocabulary of the agriculture they hoped to replace. Szczehe argued, was no longer sufficient to support life: "Today agricultural industry kept their province in a state of wretched poverty. Agriculture, agriculture over industry and whose refusal to support the growth of not fail to point the finger at Galicia's conservative elites, who favored though he did not mention them directly, Szczepanowski's eulogist did But it was not only foreigners who stood in Szczepanowski's way. Al-

to exercise bad judgment. While claiming to represent morality and the chant for democracy led him, predictably, in the mind of conservatives, nomic change. Not even they seriously accused him of embezzlement for come the forum for a debate on the merits of democracy and socioecobest interests of Poland, he had proven himself to be at best amoral, if the purpose of personal gain. Szczepanowski was incompetent, his pen-Szczepanowski's opponents also allowed Szczepanowski's trial to be-

> corrupted morals of great capital."138 that Szczepanowski's acquittal was further proof of the worthlessness c ocratic Party and the publications of its press organ, Słowo Polskie, an Galician Savings Bank funds had been used to finance the Polish Dem that so much of Polish industry had fallen into foreign hands in the firto the commentary of Ludwik Straszewicz, courting Galician conserva jury trials. The Ruch Katolicki called Szczepanowski "an apostle of th the leader of the conservative Stańczyks, Stanisław Tarnowski, claime broke his wings as an industrialist."137 Conservatives tried to prove the of the people, "it [was] very likely lucky for Galicia that Szczepanows! place. Given his recklessness, gullibility, and excessive belief in the wor tives in the Cracow journal Kraj, it was the fault of Szczepanowski's so of Poles. No less could be expected from such a "democrat." Accordin Szczepanowski had done to Poland's reputation and to the national prid not immoral, in his financial dealings. They emphasized the damage the

and this led him to the final catastrophe."139 This was the origin of the mistakes and errors committed in this field in him the usual result of blazing fantasy, not resting on real foundations paralleled impracticality in the field of technical enterprises, which wa feat. In him were strangely combined a thorough knowledge and an un manticism, who in contact with cold reality had to surrender to sad de was described as "a brilliant representative of political and economic ro mise. In the obituary published in the conservative newspaper Czas, h Conservatives' criticism of Szczepanowski did not soften after his de

parliamentary delegates foreshadowed descriptions of Szczepanowsk otism of like-minded Poles. Whether Szczepanowski was to be com made after his death. In a tone that was simultaneously affectionate and before the outbreak of the scandal, the author of a book of sketches o there was surprising agreement on what that basic character was. Long while the normative value they attributed to his character differed widely mantic," all agreed that the problem lay with Szczepanowski himself. And mended as too good for this world or condemned as foolish and "ro others secured through connections, personal charisma, and the patri why Szczepanowski had to supplement the funds he raised legally witl neither newspapers, eulogists, friends, nor foes questioned the reason explore broader questions relating to Galicia, Poland, honor, and prestige than his own individual fate. Nevertheless, while they were willing to Both sides seemed to agree that Szczepanowski's trial represented mon

condescending, Szczepanowski was described was well-meaning, naïve, and misguided. "[He] has learned and observed much, but does not know how to reconcile the observed with the learned"—this was, after all a man who was both an experienced economist and an incompetent businessman. "He uninterruptedly founds companies that earn money for others. He allows careerists, who like to hide their own lack of character in the shadow of his naïve honesty, to exploit his indestructible drive to work and his wealth of knowledge.... [He is] an educated, hardworking, altruistic man, but at the same time confused in his ideas and goals like no other. A man of progress who cluelessly pulls forward like a workhorse without noticing that he is hitched to the cart of reaction." 140

of the pyramid became starker than ever before. what was good for elites and what was good for those at the very bottom overproduction and brutal competition for international markets, the sions sharpened, even government representatives began to view the naon the wax industry), Poles were wary lest profits derived from their soil of too much foreign involvement in Galicia and thus in Polish industry. such great effect outlasted his own personal disaster. Throughout the next oil as a tool of national regeneration that Szczepanowski employed to what was good for business. At the same time, the dissonance between advocated what was good for the empire, what was good for Poland, and battle over what was good for Galicia became a battle between those who tionality of those who controlled the industry with concern. In an era of fill foreign coffers. As foreign investment increased and international teneign investors and managers (as did the factory inspector in his reports Although Austrian officials might laud the improvements brought by fordecades, Galician producers (including MacGarvey) warned of the danger recognize that this was beyond his power. Nevertheless, the rhetoric of Garvey was an oilman first and a Canadian second. Szczepanowski did not focus exclusively on the business of running a business. Macduction, a fact that indicates some appreciation for the benefits of vertical thought that he could force oil to do his bidding, but was forced to refining, that were his downfall). But unlike MacGarvey, Szczepanowski integration (it was his investments in exploration and production, not Like MacGarvey, Szczepanowski invested in refining, as well as pro-

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The Boys Don't Sleep at Home

Workers' Dreams of Wealth and Independence

in no statistical compilations. registered workers listed on payrolls and casual day laborers who appear master drillers from technical colleges in the Austrian Empire and abroad afar, destitute Jews picking wax from piles of rock and highly trained Ukrainian, Polish, and Yiddish speakers, local peasants and travelers from of workers as a coherent collective well-nigh impossible. Here were stems from the dizzying diversity of this group, which makes speaking and socialist agitators at the turn of the twentieth century. The difficulty today is as difficult as understanding them was for government official scribing the men and women who worked in the Galician oil industry fit into Galician society? What were their motivations and interests? De time without ever appearing on employers' rolls. How did these worker thousands of workers who came to the oil fields for a day or two at make their companies run. The oil and wax industry officially employed dreams without the assistance of the skilled and unskilled workers who 11,944 workers in 1897,1 but this number did not include any of the jump-starting an industry, entrepreneurs are powerless to realize thei While the vision and risk tolerance of oil entrepreneurs are essential is

One thing is clear: oil workers did not act as Galicia's revolutionary class. Skilled workers, including drillers, stokers, smiths, and boiler makers, were well paid and well respected. Unskilled workers were neither, but nevertheless were resistant to socialist rhetoric. This was not a cadre of peasants who had abandoned their farms to devote themselves to industrial work, but rather a huge number of workers who filtered in to oil towns seasonally, when they needed a little extra cash, or where there was less work back on the farm. Unskilled workers in the oil pits