MODERNS

PROFILES IN
THE ORIGINS OF
TWENTIETH-CENTURY

THOUGHT

THE UNIVERSITY OF CHICAGO PRESS CHICAGO AND LONDON

1987

THE CENTURY BEGINS IN PARIS

MODERNISM ON THE VERGE

1900

Inevitable Paris beckoned....

—The Education of Henry Adams

for more than two generations. world cultural capital of the twentieth century, a position it would hold city into the epicenter of Modernism. Paris in 1900 became the first the Parisians themselves, they had made a graceful nineteenth-century foreigners, poets and physicists, painters and politicians, until, swamping reason, they came in droves, transient and permanent, provincials and ist Paterson ever attracted was William Carlos Williams. Whatever the kinds of creative ambition than that of any other nation. It may even have had by 1900 that France's leadership was more open to even the odder traction was the World's Fair, a larger edition of the Eiffel Tower fair of Jersey was the world center of anarchism, and the only creative Modernbeen the strength of Parisian anarchism; but at the time Paterson, New the young of both sexes and from every corner of the globe. One atcade of the old century had come ambitious young men from the polyglot taught in Vienna had already been dissected. To Vienna in that last dereviews the Décadence that still captivated Vienna was moribund by the was already the establishment in Parisian galleries, and in its journals and department store millionaires buying Monets and Sisleys, impressionism medium (and a stage) for the invention of modern poetry. By 1900, with 1889; but more important may have been the sense these young people provinces of a geographically compact empire; but to Paris in 1900 came beginning of one. Already, in the 1880s and 1890s, it had provided a 1890s. In Parisian faculties of philosophy, the scientism and positivism Paris; but Paris in 1900 was not at the end of a century. It was at the Vienna was fin de siècle, a phrase that came from

As the trickle grew to a flood in 1898, Paris already housed some of the most creative young minds in the Western world. At number 7, rue Cassette, floor two and one-half, a strung-out Breton named Alfred Jarry was writing things that would have deeply shocked a Pole named Marie

Curie, who was in a shed near the Physics Faculty, one neighborhood east, refining tons of Czech pitchblende ore into the first milligram of radium. In the same city where the now ailing Mallarmé had held his poets' Tuesdays, Professor Henri Poincaré was pursuing the strange implications of Cantor's sets and Maxwell's radiation laws, and composers Gabriel Fauré, Claude Debussy, and Erik Satie were stretching key signatures to the breaking point. Painting in Montmartre in complete obscurity were a German named Hansen, who would become, as Emil Nolde, one of the founders of expressionism, and the Czech Frantisek Kupka, soon to be among the founders of abstraction. In nearby Fontainebleau, the English composer Frederick Delius, who had been there since the last World's Fair in 1889, was composing *Paris: The Song of a Great City* in 1899.

Among Parisians who had already made their mark by 1900 were an American painter, James Whistler, one of the town's toasts; and an Irish writer, Oscar Wilde, who was one of its scandals. Wilde's compatriot, William Butler Yeats, had learned the symbolist aesthetic in Paris after Symons had written the symbolists their history in 1899, and Jean Moréas, a Greek, had written their manifesto in 1886. Two Poles, Wyzewa and Krysinska, and two Americans, Merrill and Vielé-Griffin, had expatriated themselves in the 1880s to join the movement, and, as we have seen, to Whitmanize it. Paris was full of Belgian writers, too, like the Whitmanesque poet Emile Verhaeren; the symbolist novelist Georges Rodenbach, author of Bruges-la-Morte, who died there in 1898; and Maurice Maeterlinck, who had moved to Paris for a year in 1886, written the classic symbolist play Pelléas et Mélisande, and settled there for good in 1897.

ments and write his madman's diary, Strindberg had met and argued with still other venturesome Norwegians, like the writer Knut Hamsun, whose cabarets. Returning to Paris in 1894-96 to conduct alchemical experivisitor from 1876 who was there again in 1883 checking out the Paris and quarrel with a young Swedish genius named August Strindberg, a dramas before Ibsen, was there in the 1880s, and was thus able to meet Lulu. The Norwegian, Bjørnstjerne Bjørnson, who had written realist haunting circuses and cabarets and drafting plays about a whore named The German Frank Wedekind had been in Paris between 1891 and 1895. critic Hermann Bahr had learned Décadence in Paris in 1888, and his came in the nineties, confirming Moore's message. The Austrian theater friend, the playwright Arthur Schnitzler, paid a visit in the spring of 1897. the English-speaking world the first news of symbolism. Synge and Yeats 1873, making friends with Mallarmé and Dujardin and bringing back to in Europe. The Irish playwright George Moore had come as early as Makers of theatrical modernism were drawn here from every country

Hunger had foreshadowed the modern novel in Oslo in 1890, and the painter Edvard Munch, who had learned enough in Paris to change the course of his art in 1889. There were even a few Russians. Chekhov came in 1891 and again in 1897. In 1895 Vladimir Ilyich Ulyanov, a young rebel known only to the Russian police and a few comrades, came several times to Paris. By 1908, having renamed himself Lenin, he would move the whole Russian Social Democratic Party to the City of Light.

In retrospect it is clear that what all these debutants needed was an all-around impresario. This they got in 1899. On the night of October 4, a bastard Monégasque with the Polish name of Kostrowitsky took his mother's instructions and, neglecting to request his bill, strolled out of their fancy hotel in the Belgian resort of Stavelot and boarded the night train for Paris. It would be a cold, hard winter, but Wilhelm Kostrowitsky emerged from it a Parisian. Within a dozen years, having dubbed himself Guillaume Apollinaire, he would be Paris's best-known poet, and the leading journalist of the avant garde. But for that first spring in Paris, Kostrowitsky would be watching the arrière-garde stage its last great self-congratulation, the Grande Exposition Internationale et Universelle de 1900: The Paris World's Fair.

New Year's Eve, at half past one, I begin the great journey. . . . Hurrah! . . . And in the new century when I am in Paris, the great pit of sin, I shall often think of your sweet and peaceful little house. . . . ¹

—Paula Becker

The "sweet and peaceful little house" was Otto and Helene Modersohn's in the little art colony of Worpswede, near Bremen, in north Germany. Their departing friend was Paula Becker, a twenty-three-year-old painter. Just ending her apprenticeship, she had begun to paint in curiously flat, monochromatic planes. Becker was an original, quite probably a genius. Clearly, she had to get to Paris, but unlike Apollinaire, she would plan her trip in advance. On New Year's Eve, 1899, she presented her ticket at the Hamburg railroad station. Traveling on the line Apollinaire had used, Becker arrived in Paris as the sun rose on the first morning of 1900, ready to take a deep draught of the new century at its source.

One hour from Paris and my heart is full of anticipation. . . . ²

-Paula Becker

A "clattering carriage" took her off to a tiny studio in Montparnasse where she fell asleep, ecstatic and exhausted. Fellow Worpswede artist Clara Westhoff, nearly three years younger and also unmarried, knocked on her door and woke her, and they talked until daybreak. Becker quickly enrolled at the Académie Colarossi, one of the few art studios in the

world where women were permitted to study. Within twelve months, Becker's harbinger would be followed by an extraordinary parade of genius, from Isadora Duncan in May to Bertrand Russell in August to Pablo Picasso in October.

I am in Paris. I departed on New Year's Eve. . . . And now I am living here in the bustle of this great city. . . . ³

—Paula Becker

all over Paris in 1900. doing and changed her life. That was the sort of thing that was happening shop and saw her first Cézannes.6 They confirmed everything she was Becker never found Matisse; but in late May 1900, she found Vollard's show you a Gauguin—Matisse had bought one from him in 1898. Paula the Indian Ocean, Vollard was also one of the few dealers who could dealer in Paris who had Cézannes was Ambroise Vollard, who kept one of the many small art shops in Montmartre's rue Lafitte. Born on Réunion in little Cezannes hung in the French exhibit in the Grand Palais. The only the infinitely small." Roger Marx had fought tooth and nail to get three strange perspectives and "differentiation of the color planes . . . toward Provence, but not many knew it. Moneyed collectors didn't like his 1,300 francs, for a little painting of bathers by an ex-impressionist named from the laurel leaves, Matisse had just laid out a rather large chunk, demic future to do things his own way. From the small income earned Gustave Moreau, was dead and Matisse had given up a promising acawas in 1900, and hardly anyone else did either. He had been a gifted Cézanne. At sixty-one Cézanne was still painting in his beloved Aix-en-Denis to call him "the Mallarmé of painting;" but by 1899 his mentor, Beaux-Arts student and had had a show in 1896 that provoked Maurice cornice of the Grand Palais ceiling. Becker did not know who Matisse bread with his friend Albert Marquet, painting the laurel leaves on the pecting another baby, and at thirty-one Henri Matisse was earning his doing the stucco work."4 One was probably Matisse.5 His wife was exlittle sculptor's apprentices from the evening life-drawing class . . . are into the huge art exhibit hall called the Grand Palais, where "the poor Westhoff wandered over to the fairgrounds on the right bank, peeked The Great Exhibition wasn't open yet, but on February 25 Becker and

The France they came to was still quaint with the preindustrial. Toilet paper was unknown, and house-to-sewer connections as rare as bathtubs and toothbrushes. In 1883 Strindberg called France "a bloody country" where "a piss costs 5 centimes, to shit at least a franc, and [friends] who were here a few days ago said one couldn't get a fuck for less than 10 francs." Nonetheless, it was uniquely lively. By Eugen Weber's count it published 2,857 periodicals, of which more than 70 were Paris dailies.

Americans may be shocked to learn that Paris had nearly 350,000 electric lamps, and France more than 3,000 automobiles; but in fact France was as far ahead of the United States in the development of the automobile as it was in that of the bicycle. The first Michelin Guide had just come out, nearly a hundred automobiles from several countries were on display in the Palace of Civil Engineering and Public Transport just up the Champ de Mars from the Eiffel Tower, and the Vélodrome Buffalo, the world's most advanced bicycle track race course, had just opened on the site where Buffalo Bill had made his Wild West Show the hit of 1889.

As the Fair's opening day approached, France was just getting over the most egregious political affaire since the founding of the Third Republic. The retrial of Captain Alfred Dreyfus in August 1899, and his release from jail in September, had been preceded by an attempted rightwing coup in February and followed by the death of a Dreyfus partisan in a duel with an anti-Dreyfusard member of the French parliament. So convulsive was the Dreyfus Affair that at its height, in 1898, the French foreign office had had to order a French army detachment in the Sudan to haul down its flag and pull out to Somalia. Fashoda was abandoned largely because France felt too little domestic unity to sustain a possible conflict with England. Even cyclists divided. In 1900, auto enthusiasts on the staff of Le Vélo, uniformly anti-Dreyfus, seceded to found a new journal, L'Auto.

gation back in 1895. This was, of course, Theodore Herzl, who had by even calls to boycott the Fair. Vienna heard about it all from the disment's enemies fauves (wild beasts), and in other countries there were tack on the anti-Dreyfus government, "J'Accuse," called the new govern-Clemenceau, the editor who in 1898 had printed Emile Zola's great at raded through Paris in defense of Dreyfus. A week after that the antitrack. A week later, 100,000 liberals, moderates, and socialists had pa-Emile Loubet, had been assaulted by anti-Dreyfusards at the Auteuil race. but not quickly enough to prevent gossip. Then in June the new president, bundled the president's mistress, Meg Steinheil, out of a side entrance. his meeting with the Cardinal Archbishop of Paris. Security men had been found in bed in the Elysée Palace, dead and nearly nude, just after tial election on February 29, 1899, because President Félix Faure had been reporting on it since his eyewitness account of Dreyfus's public deropatches of the Paris correspondent of the Neue freie Presse, who had Dreyfus government fell and a Dreyfusard took over as premier. Georges 1900 tounded a small movement that was coming to be called Zionism. In the midst of it all, there had had to be an extraordinary presiden-

But the government held, with its coalition of socialists and democrats, and so did Dreyfus's vindication. On January 8, 1900, a week after Paula Becker's arrival, a French court finally convicted the anti-Semitic leaders of the attempted coup of February 1899, and the famous Affair

began to cool down. By April 1900, Dreyfus himself was able to get away to the provincial town of Carpentras, to try to recapture his peace of mind. By April 14, when President Loubet finally opened the Great Exhibition, Paris was ready to forget politics for a moment and celebrate.

mard in a shape suggesting giant blooms and tropical vegetation. the entrance of the new Métropolitain subway, sculpted by Hector Gui-Spanish teenager named Pablo Ruiz Picasso. Later, the ribbon was cut on best, and a large sentimental piece called The Last Moments by a gifted Meissonnier and Bouguereau which the Academy considered France's the Finn, Gallen-Kalela, varnished historical tableaux by the likes of had judged and sent as their best, including huge symbolist fantasies by had painted the laurel leaves, were hung works of art the various nations axis, connecting the great esplanade of exhibits on the left bank north of Palais. In the "Great Palace," the beaux-arts greenhouse where Matisse tween the Seine and the Champs Elysées: the Petit Palais and the Grand the Invalides with the two major exhibition halls on the right bank betactless enough to dwell on that.) The Alexander III Bridge was the Fair's III. (Alexander had been a bit bloodthirsty, but only the anarchists were dedicated a new bridge across the Seine to the czar's father, Alexander dent, accompanied by the Republic's new ally, the Czar of All the Russias, Opening ceremonies were elaborate and leisurely. The French presi-

But more about the Exposition, also in fragments, because everything is still whirling and tumbling before my eyes....

-Paula Becker

On hand to film the ceremonies were Raoul Grimoin-Sanson, with 10 synchronized 70-millimeter cameras in a tethered balloon, and the two "light brothers" from Lyon, Auguste and Louis Lumière, the first Frenchmen to perfect the fascinating sequential picture-taking of Muybridge and Marey. The Lumières had given the world's first public exhibition of movies in Paris in 1895. One of their favorite subjects was the two-speed electric moving sidewalk that ran down the Esplanade of the Invalides and along the right bank of the Seine past the national pavilions. Though a lot shorter than the new Métro subway, it was, at five miles an hour, at least as good a way to travel as the Fair's electric train; and it made a delightfully disconcerting film. On the two opening nights, April 14 and 15, the Lumières took a shot at filming the complicated illuminations along the Seine and at both ends of the Champ de Mars, the Eiffel Tower and the Palace of Electricity.

On May 20, Baron Pierre de Coubertin, inventor of the modern olympic movement, proudly opened the Second Olympiad, the first ever to admit women, in the City of Light. Overshadowed by the Fair, the events were so scattered in Parisian time and space that even after com-

peting some athletes were still unaware that they had been in an Olympic Games. By the time the Olympiad petered out in October, French athletes had taken the marathon and 28 other gold medals. The Americans had won only 20, including women's golf; but they had bettered their great showing at the first Olympiad in 1896, and Frank Jarvis had won the emblematic 100-meter dash.

Eating is very expensive here, . . . One can just manage to get one's fill for a franc. 10

-Paula Becker

of the Latin Quarter, the Sélect in Montparnasse, the Deux Magots and voices of the avant garde could be heard in Le Départ on the threshhold champagne flowed for the Fair's opening, while the more disdainful at the Mirliton. Frédé's café, the Zut (Damn), and Adèle's Lapin A. Gill in 1900. Aristide Bruant, his anarchism mellowed a bit, still held forth the Montmartre cabarets, weird and legion, were very much in business medieval "Old Paris" on the right bank near Alma Bridge. In any case, was emerging as one of the Fair's stars for his plaster reproduction of bida, who had put on the Chat Noir's precinematic "shadow-theater," nard were still entertaining Paris with absurdist humor, and Albert Rothe Arceuil suburb; but other alumni like Alphonse Allais and Jules Re-Noir had finally closed in 1898, its shy pianist, Erik Satie, self-exiled to the Café de Flore in St. Germain-des-Près. In Montmartre the old Chat At Maxim's, the luxurious café near the fairgrounds founded in 1892, in Montmartre since the last World's Fair, the dwarfish figure of Count centimes or less, and it was still under fifty centimes to go to the Quar'Z'. (Gill's Rabbit-the old Cabaret des Assassins) sold drinks for twenty-five great cancan dancer, La Goulue, had gone out on her own in 1895, and recently concluded stay in the Neuilly alcoholism clinic. The Moulin's Henri de Toulouse-Lautrec could be seen, joking over a drink about his Arts or the Moulin de la Galette. At the Moulin Rouge (two francs), open ing food. Five years later wildly colored paintings by him would hang cuses in Montmartre, the Nouveau Cirque and the Cirque Médrano (forlow." Montmartre was the place for dancers. There were even two cir-Fair year, her figure raddled, "living between a stray dog and a tame swaltree was to see her for the last time, in the late September of the World's from Montmartre and from the Fair. There at the Trône fairgrounds Lauthe minuscule Count had painted some flats for her performing booth tar with Matisses, Dufys, and Derains in the famous "Fauve" room at the Kees Van Dongen, who that March had come to Paris to stay, was cadg merly the Fernando). In the same neighborhood, a Dutchman named Salon des Indépendants.

In the age of limelight, the theaters were open too, in every sense of

eval fantasy by Maeterlinck at the Théâtre de l'Oeuvre. tance by adding an extra consonant to the word; but everyone heard "shit" just the same.) A week later, Lugné-Poë had calmly opened a medi-Scene One, and says, "Shit!" (Jarry had tried to establish a certain dis-Ubu, by Alfred Jarry, in which a royal figure waddles on stage in Act One, had staged one of the great scandals of the history of French theater, King mad impresario with the improbable name of Aurélien-Marie Lugné-Poë Symbolists with subscriptions gathered to see symbolist plays at Paul staged Rites of Isis, somewhat disconcerting her brother Henri Bergson dan went to the Théâtre la Bodinière, where in 1899 Mina Mathers had December 10, 1896, at the Nouveau Théâtre in Montmartre, Lugné-Poé At this theater symbolists could hobnob with anarchists. On the night of Fort's Théâtre d'Art, now renamed the Théâtre de l'Oeuvre and run by a Occultists not on call at the Rose + Croix chapel of Joséphin "Sâr" Pélastage machinery, and indulged a growing fascination with the movies terror. Connoisseurs of magic went to the Théâtre Robert Houdin, where opened the Théâtre du Grand Guignol especially for blood, gore, and director George Méliès worked little miracles with the new lighting and plays in the interim, and in the end Oscar Méténier hired a chapel and his place as the Théâtre Antoine; but there were plenty of slice-of-life said by so many to have begun in 1887), and 1897, when he reopened André Antoine closed his Théâtre Libre (where "modern" theater was or naturalism, you might have felt a bit at a loss between 1894, wher see her play, en travesti, the lead role in Hamlet. If you favored realism ferred Sarah Bernhardt, you could go to the Théâtre Sarah Bernhardt and where Yvette Guilbert sang songs and "said" monologues. If you pretogether (this would soon get the name vaudeville) you could go to the "Our servants will do that for us.") If you liked short pieces strung Folies-Bergère, the Olympia, the risqué Eldorado, or the Eden-Théâtre spring of 1894, the Gaité had reluctantly allowed itself to be hired for a produce it, from the most paper-thin farce to the strangest novelty. In the or both. If you were ready for anything, the Théâtre de la Gaité would before, vainly trying to produce it. ("Living?" says Axel in the last act play called Axël. The author, Villiers de l'Isle-Adam, had died some year the word. It depended entirely on your subscription, or your aesthetic-

On the Champs Elysées in May, just north of the fairgrounds, a theater was opened especially for one performer, the extraordinary dancer Loïe Fuller, late of Fullersburg, Illinois, and her company of women. On a stage illuminated from every direction by the new electric light (in 1898 she had written to Marie Curie asking whether radium would work as theater lighting) Fuller spun herself and the various parts of her thin, loose robes, catching the reflections, and looking for all the world like the fluid vortex in some strange apéritif. This was art-nouveau dancing, "modern style" as some Germans called it; but in America, you

simply called it "skirt-dancing." Fuller's breakthrough solo, "Serpentine," had been developed not long after her New York début in 1890. Mallarmé had been delighted by it when he first saw Fuller at the Folies Bergère in 1893. "La Loïe" was filmed in 1895. By the time she opened on the Champs Elysées in 1900, Raoul Larche and Koloman Moser were trying to capture her in bronze, but the continuity of her performance seemed to defy anything but film.

From London, where she was dancing "Spring Song" in bare feet, a twenty-two-year-old Californian named Isadora Duncan arrived to join her brother at 4, rue de la Gaité and see La Loïe for herself. Fascinated, she went backstage, and soon accepted Fuller's invitation to join the troupe. Isadora's stint with the Fuller company was brief—as a militant heterosexual, she felt a bit out of place—but the lessons about choreography and publicity were forever.

the tracks in St. Louis in 1906, would debut as an exotic in Paris in 1925 formed into the avant-garde Ballets Russes by six successive seasons in make themselves in Paris. Vaslav Nijinsky, Irina Pavlova, and their fellow were not the first dancers—and would certainly not be the last—to reeventual transformation into Ruth St. Denis. Fuller, Duncan, and Dennis turned to New York and Dennis to Brooklyn, the stage was set for her of David Belasco's Zaza, and Loïe's work delighted her. When Zaza retional. Dennis came in the summer, following her run in the London tour can, the trip to see La Loïe and the Great Exhibition was no less educa-In the end, however, Paris's most notorious dancer would be its least revo-Paris starting in 1908; and Josephine Baker, born on the wrong side of performers of the Russian classical ballet, for example, would be transmother who came to Paris in 1903 to launch herself as a model, only to lutionary. Margaretha Geertruida Zelle MacLeod was a Dutch single herself Mata Hari. sor of the brassiere, she danced things vaguely East Indian and called certain haut monde at whose parties, wearing nothing but the predecesbreasts too small. At that MacLeod, too, became a dancer, the talk of a be turned down by the first painter she went to because he found her For Ruth Dennis of Somerville, New Jersey, a year younger than Dun-

Not all the Americans in Paris in 1900 were dancers. Did Isadora Duncan notice another woman who had grown up in her old home town of Oakland, William James's young psychology student Gertrude Stein? Stein passed through Paris for the first time that summer, touring with her brother Leo and Mabel Weekes, the girlfriend through whom, a few months later, Gertrude was to meet May Bookstaver, her first love. Did Gertrude notice the distinguished-looking black man with the goatee, who had traveled to the Fair in steerage to install his grand-prize-winning exhibit on black economic development? He was William James's old philosophy student, W. E. Burghardt Du Bois of Great Barrington, Mas-

but at sixty-two, he belonged to a generation sensitized against racism. and colonizable peoples. Adams made no mention of the colonial exhibit, and would soon house a permanent ethnographic museum of "primitive" exhibit that included Cambodian temples and North African villages. the Seine from the Eiffel Tower, was the center of a vast French colonial hoping to make sense of the twentieth century? The Trocadéro, across ams, who had moved into a hotel near Trocadéro Palace on May 12, phy, Edward Steichen? Or the bald and dignified Bostonian, Henry Adthe eye of Stein or Duncan?11 Or that founder of American art photogracaught the eye of Colette in the Bois de Boulogne that summer, also catch Did Natalie Barney of Philadelphia, the future lesbian militant who health spas and trying to finish The Varieties of Religious Experience. year and would, a decade later, found the NAACP. James himself might was not to his liking. Still, he knew a historic event when he saw it. Radioactivity baffled him, and even the art officially exhibited at the fair have introduced them, but he was skirting Paris, resting in European sachusetts, who would go on to the Pan-African Congress in London that

Scores of artists,—sculptors and painters, poets and dramatists, workers in gems and metals, designers in stuffs and furniture,—hundreds of chemists, physicists, even philosophers, philologists, physicians and historians,—were at work, a thousand times as actively as ever before, and the mass and originality of their product would have swamped any previous age, as it very nearly swamped its own.¹²

Little did he know what was really being prepared in Paris for his swamping; though he may have got an inkling in July, when Samuel Langley, confident that he would soon invent the airplane, showed Adams the colossal electric dynamo in the industrial exhibition hall. As he fought the urge to pray to it, Adams thought, so much for Mont Saint-Michel and Notre Dame.

But the old gave way to the new in unexpected ways. In his mother's house at 9, boulevard Malesherbes, a breathless young dilettante named Marcel Proust was finding his long, slow, strange way to a novel by translating John Ruskin's paeans to Gothic style for the Figaro and the Gazette des beaux-arts. Like so many real Parisians, Proust left town just before the Fair opened, spending that spring retracing Ruskin's footsteps in Venice. In Paris, literature still mourned the death of Mallarmé in 1898, but the newest and youngest of his disciples were about to be heard from. On February 1, 1900, one of them, André Gide, took over from Léon Blum as literary critic of the Revue blanche, the most influential desk on what was then France's most influential avant-garde review. Founded and subsidized by the Natanson brothers, it had published

about Valéry until 1921. write about the sculpture of Auguste Rodin, and was not to find out was touring Russia that May. He would not get to Paris until 1902, to who would one day be matched with him, Rainer Maria Rilke, but Rilke eventually succeed to Mallarmé's eminence as the most deliberate, herand almost everyone at St. Honoré was veteran of Mallarmé's Tuesday north of the Trocadéro, where he and his old friend Pierre Louÿs were to and by 1913 he would be a dean of the French literary world, just powerdefinition of post- or "neo-impressionism." On March 19, Signac and metic, and challenging French poet of his time. There was a German poet troduced him to Mallarmé's poetry ten years before, and Valéry would then trying to decide between mathematics and literature. Louÿs had inparty five days before. As for the groom, he was Paul Valéry, who was salon, except Pablo Casals, who had played his cello at the engagement stand witness to a wedding. Gide had introduced Louÿs to Mallarmé, tul-and toolish-enough to turn down Proust's Remembrance of been sold. As for Gide, by 1900 he had published books in every genre whence the great canvases, from Une Baignade to Le Cirque, had finally Fénéon had opened a Seurat exhibition in the Revue's reception rooms everything from Jarry's Ubu, Teodor de Wyzewa on Walt Whitman, Mal-1900, he went not to a desk but to the church of St. Honoré d'Eylau, Things Past for publication without reading it. On the last day of May larmé on theater, and Félix Fénéon on Van Gogh to Paul Signac's famous

to say that the young wife he had imported from Burgundy in 1893 and it was by "Willy," Henri Gauthier-Villars, whose attacks on Dreyfus had titillating but considerably more upbeat than its competition, Journal of was a new novel called Claudine à l'école (Claudine at school), equally store, you could even get "Willy" rice-powder.13 Just the thing for the media tie-ins in publishing history. Stores all over Paris were selling 40,000 copies in two months, and became one of the first successful known than anyone except God and Dreyfus. Claudine à l'école sold they kept the secret: not an easy thing for Colette, since her creation in the first year of their marriage. For years, until Colette finally left him, Sidonie-Gabrielle Colette, who had written the book, and to Willy's order delicious things about her school." In fact, it was precisely his wife, kept carefully housebound in Paris had helped by telling him "the most just cost him his job as music critic on the Revue blanche. "Willy" used a Chambermaid, by the surviving Decadent Octave Mirbeau. Supposedly Colette's picture dressed as Claudine, and at the Samaritaine department "Claudine" pefume, "Claudine" cigarettes. There were postcards with "Claudine" lotion, "Claudine" ice cream, "Claudine" hats and collars, became so famous in 1900 that people used to say Claudine was better The best-selling book of 1900 was nothing so daunting, however. It

> swede, read Hamsun, and absorb the lessons of Paris at leisure. 15 same time Becker, who had, without ever meeting them, learned the same studio in Châtou and experimenting with the flat planes of increasingly to paint together the next day, and within the year they were sharing a new way of painting, returned to Germany to sit in the claypit at Worpbrilliant colors that would be christened fauvism in 1905.14 At about the was studying his craft at one of Paris's many studios. They made a date commuter for the first time. This was Matisse's friend André Derain, who him to Paris went off the rails, and in the confusion he met a fellow meant a lot of commuting. Sometime in June or July, the train that took ously from competitive cycling, contributions to left-wing papers like La tion, painted where he lived, on the banks of the Seine at Châtou. That Revue anarchiste, and playing in a gypsy orchestra at the Great Exhibihis dying wife. Maurice de Vlaminck, whose small income came vari-Paris, but was almost immediately called back to Worpswede to attend Seine outside Paris. Paula Becker's friend, Otto Modersohn, came to either went back where they came from or made do with the valley of the new opera, Prometheus. As always, painters who could manage it left bands in the open-air ampitheater at Béziers in the south to première his Paris for places where nature came on stronger. The young and obscure novator of French music, Gabriel Fauré, was rehearsing three separate The weather that summer was particularly beautiful. The senior in-

I love color. It must submit to me. 16

-Paula Becker

on set theory. Poincaré had made fundamental contributions to the episgraceful essays stood on Paul Valéry's night table next to Cantor's papers ences was France's senior polymath, Henri Poincaré, whose clear and last, from the 18th to the 25th. Addressing or attending all four confertrical engineering (like the Society against Tobacco Abuse) would meet would follow immediately on the 6th, simultaneously with physics. Elecgress of Philosophy was scheduled to take place August 1-5. Mathematics most abstract thought also waited for August. The International Confor the most significant work since their last conference in Moscow. The bring Santiago Ramón y Cajal to Paris and give him its 5,000-franc prize was when the Thirteenth International Congress of Medicine planned to paths and battleship designers had already met there in July; but August special building had been built for them on the right bank, downstream from the Horticulture greenhouses next to the Alma Bridge. The homeotions coincide with each other, and with the Great Exposition itself. A formed only during the past decade, had arranged to have their convenprofessors. The great international scholarly associations, most of them As summer went on, Paris emptied of painters and began to fill up with

explain and promote it. His address to the physicists on the relations ences he so often missed the trees for the woods. the same great questions. It would hardly be his fault if at these confer Poincare, physics, philosophy, and mathematics were all approaches to he had begun to get that spring in his black-body experiments.19 For ation theory, and Otto Lummer explained, in French, the odd new results Planck as Planck's Berlin colleague, Willi Wien, questioned Planck's radition the existence of the ether. 18 He was there in the audience with Max between the experimental and the theoretical was among the first to queshis guests in Paris was announced to the world, Poincaré was there to "chaos theory" buried in it.17 As each of the great discoveries made by place and Lagrange, had just come out, with the foundation of the future Mechanics, building on the great works of the French Newtonians Lasitus or topology. The third and final volume of his monumental Celestial geometry to deal with continuity in the abstract, which he called analysis paper Poincaré published in 1895 had helped invent a new branch of the old physics of gravitation, and the new physics of electrodynamics. temology of science, the logic of sets, the mathematics of function theory,

to the discovery of the first of the new century's daunting list of logical dations of arithmetic, missing not only the final philosophers' coffee at closed, he went home to Fernhurst to apply Italian methods to the founand asked for copies of everything he had written. The day the Congress upon which he embarked. As the days went by, I decided that this must sets and the foundations of geometry, and author of what in 1896 was named Bertrand Russell. He and Alfred North Whitehead had come on of number. The talk overwhelmed a twenty-eight-year-old Englishman tions (a sort of logical algebra), and a stab at the long-sought definition scribing the power of his new notation for a symbolic logic of proposiabout reducing geometry to three undefinables and discussing whether century thought. undecidables, and demolished one of the foundations of nineteenth-Congress of Mathematics on August 8. As we shall see, the work led him the Café Voltaire but also the first meeting of the Second International be owing to his mathematical logic." 20 Thereupon Russell went to Peano than anyone else, and that he invariably got the better of any argument answers. "I observed," wrote Russell, "that he was always more precise mean (a Dedekind sort of question), but Peano seemed to have all the paper was about what "between" and other positional concepts might the definitive study on the mathematical infinite. Russell's conference the invitation of Louis Couturat, Russell's correspondent about Cantor's "definable" was definable. Peano himself gave a paper on August 3 de-Giuseppe Peano, descended on the Palace of Congresses with papers foundations of mathematics. A phalanx of Italians, led by the amiable The Congress of Philosophy, in fact, proceeded to try to define the

> and could not know. in Weimar on August 25, he too seemed like a nineteenth-century figure. Only later would thinkers realize how much he had claimed we did not from the old century. When mad Nietzsche finally died of tertiary syphilis lute rigor has been attained," have the fragrance now of pressed flowers a solution. There is no ignorabimus," and Poincaré's reply, "today absocide whether a certain kind of equation was solvable and decide it in a fact, there is no such decidability. Hilbert's declaration, "There is always finite number of steps. There turned out to be no such proof, because, in tion, which was none other than Cantor's Continuum Problem. The theo-Question, which had asked for proof positive that you could always deretical invention of the computer came in an attempt to answer the Tenth atic Set Theory has come out of attempts to answer Hilbert's first Quesmathematics that has not been related to their solution.²¹ All of Axiomotherwise disposed of, and little has been done in twentieth-century the twenty-three "Hilbert Questions," twenty have been either solved or be the business of the twentieth century. He was very nearly right. Of outstanding problems in mathematics in 1900, and their solution would propose its agenda. There were, he told the Congressists, twenty-three whole, and he seized the opportunity provided by the new century to one of the last mathematicians in history who could see the subject mathematician, David Hilbert of Göttingen. Like Poincaré, Hilbert was of uranium salts), the keynote address was given by Germany's greates Faculties (not far from where Marie and Pierre Curie tended their vats the Palace of Congresses to the more familiar precincts of the science At the Mathematics Congress, which almost instantly withdrew fron

to mention her painting trips to Paris. Marriage to Modersohn soon got in the way of Becker's originality, not married that spring, parents by December, and separated within the year. unpromising futures.²² Rilke and Westhoff were lovers by February 1901, Morale de l'amour" (The morality of love), loves born of idealism have with her. As Remy de Gourmont wrote that year in an essay called "La Becker was falling in love with the widower Otto Modersohn, and he ing art and idealism and casting his spell over Clara Westhoff, Paula In the Worpswede art colony, where Rilke had spent September talk-

like on the wall of the Spanish exposition at the Grand Palais. In the show in February, decided to see what his prizewinning picture looked ish teenager with enormous black eyes, fresh from his first local one-man future fauves for Montmartre, and one cubist. In October, a small Span-Georges Braque—got on the train for the center of the art world. Two mans—Raoul Dufy, Othon Friesz, and a powerfully built youth named began to return to Paris. Out on the Channel coast, three ambitious Nor-Congress on the Rights of Women was gaveled to a close, and the painters At the end of the first week of September, the great International

were getting their cues-Paris, the European center of artistic and politidisapprovingly as Casagemas slowly began to fall for a semiprofessional offer women little more than a vast and appreciative appetite, watched some laughs at the expense of the legislators running this year's big camat Berthe Weill's gallery in the rue Victor Massé in Montmartre. Three of rue Gabrielle.²³ This forgettable Montmartre address thus became Pablo take over a cheap studio their compatriot Nonell was vacating at 49, hotels like the Nouvel Hippodrome and had jumped at the chance to have made a beeline for Montmartre. Casagemas wrote home on October the old century) with lots of appetite and not much money, they must cal anarchism. He got on a train in Barcelona with his best friend Carles paign to regulate prostitution and prevent syphilis. Picasso, who could for a night or two at the brothels on the rue de Londres, with perhaps left-wing editor of the Dépêche de Toulouse for 250 francs. It was enough meet him, painted a Lautrec-like café scene, and sold that, too, to the blanche, but Seurat was dead, and Lautrec was still alive. Picasso went to them sold in three weeks. There was a Seurat show over at La Revue Picasso's bullfight pastels in with the marvelous Gauguins and Van Goghs found an agent, Pere Mañach, who wasted no time in putting a few of Moments doubtless pleased him up on the wall, and so did his luck. He Ruiz's first studio in the city that would turn him into Picasso. The Last 25 that they liked the Clichy cabarets, but couldn't afford to stay long at Casagemas, and jolted through the Pyrenees in a third-class carriage named Germaine Gargallo. When they arrived at the d'Orsay station (today a museum of the art of bargain, he would at last see the city where most of his Catalan friends

After more than 50 million visitors, the Fair closed on November 12. Stein went back to Johns Hopkins resolved to start an affair with May Bookstaver. Henry Adams packed his trunks for Washington. It was a Paris autumn, no different from those that had inspired Laforgue in the 1880s:

Where can one sit? The park benches are dripping and wet; The season is over, I can tell it's true;

The woods are so rusty, the benches so dripping and wet, And the horns so insistent with their constant halloo!²⁴

On the last day of November, Oscar Wilde was found dead in his hotel room. Much that he represented had died with him, including the lush "decadent" style of the 1890s, but Wilde's delight in contradiction and paradox lived on in the young Frenchmen he had met in Paris, like Jarry, Louys, and Gide. As for his *Salomé* and other symbolist plays and poems, their future would lie with composers like Richard Strauss.

Or the thirty-eight-year-old Claude Debussy. He was very good, but

had given Debussy the column Willy used to write on music in 1901. his reputation in 1902; but the Revue blanche, avant-garde as always, sande. Debussy's own Pelléas, begun in 1893, would definitively establish Gabriel Fauré would see the first Paris performance of his Pelléas et Mélia pentatonic tune seemed to move through assorted minor keys sugpiece, the finished first section of the Chansons de Bilitis. That same week 1901, as the season was ending, Debussy would premiere yet another new harmonies everywhere until the end. In the first week of February wander tactlessly through them, its predictable chords clashing with the ter, while a brass band playing patriotic chestnuts in 4/4 time seemed to minations (and perhaps the new generation) in triple and quintuple mefound its musical commemoration. Ethereal themes represented the illugesting an impressionist seascape. In Fêtes (Festivals) the World's Fair saw the première of two of his orchestral Nocturnes. In Nuages (Clouds), had been setting Louÿs's 1894 book of poems, Les Chansons de Bilitis to lunch, and had introduced him that fall to Valéry. In return, Debussy On December 9, the beginning of the concert season, Claude Debussy the ubiquitous Pierre Louys, was doing his part by inviting Debussy home the Paris musical public any idea of his colossal originality. His friend, his short Prélude to Mallarmé's Afternoon of a Faun (1894) had given almost unknown. His opera of Axël had never been produced, and only

On December 20, Picasso, Pallarès, and Casagemas got on the train to return to Barcelona. Though Germaine had cooled to Casagemas, it had taken his two friends some doing to convince him to leave her behind (they had even visited the terminal syphilis ward at the Saint-Lazare Hospital), and their work wore off as the train journey wore on. Casagemas went as far as Picasso's parents' home in Málaga, but then he turned around and took a train back to Paris. With a shrug, Picasso went back to work. In February, he got word announcing that Casagemas had pulled out a revolver in the Hippodrome café, shot vainly at Germaine, then put the barrel to his head and killed himself. Picasso was devastated. His first "blue" paintings followed, eventually including *The Burial of Casagemas* and the huge canvas of his friend and a woman that expressed Picasso's new understanding of the relation between sex and death, *La Vida* (Life).

Like so many others, however, Picasso could not stay away from Paris. He was back in June 1901, skipping a show of his work in Barcelona in order to enjoy his first one in Paris among the Cézannes at Vollard's. It was then he met the poet Max Jacob and discovered how cheap the beer was at the Zut. He was back again in October 1902, to see his second Paris one-man show at Berthe Weill's, and to visit a painter friend named Paco Durrio who had a studio near the galleries in a ramshackle building at 13, rue Ravignan. There Paco and Picasso found themselves

[T]his Paris is a city and I am not here for the last time.22

-Paula Becker

Far to the east, Paula Modersohn-Becker couldn't stay away either. Each New Year and each February 8 (her birthday) Paris seemed to beckon. With Otto's permission, she went to study in Paris for February in 1903, and again for February and March in 1905. On February 23, 1906, she left her husband without permission, intending never to come home again; but Otto followed her to Paris that fall and managed to change her mind. In March 1907, she said goodbye to the Cézannes in the Collection Pellerin and went home with her husband. She was pregnant. In November of 1907, the year Picasso broke through into the artistic realms Becker had always been headed for, Paula Modersohn-Becker died of an embolism brought on by the birth of her first child.

It's like being a child who wishes to be big and grown up, the fact of adulthood has long since lost its excitement. That is why my stay in Paris was such a happy one. I had such strong hopes.

—Paula Modersohn-Becker²⁰

HUGO DE VRIES AND MAX PLANCK

THE GENE AND THE QUANTUM

1900

one of the classic cases of an idea whose time had come. teacher himself, Gregor Mendel, had been dead for fifteen years. It was the physics teacher would be announced when 1900 began, and the set of experiments to make a strange new assumption. The discovery of of the last trace of statistical uncertainty. The other, the gene of heredity, 1900 by the physicist himself, Max Planck, forced by the results of a new The discovery of the physicist would be announced at the very end of had devoted seven years of his life to a statistical study of garden peas. had already been found by a physics teacher, a part-time biologist who devoted his whole career to "finishing up" thermodynamics by ridding it quantum of energy, would be found by a physicist so conservative he had discoveries of the new century would be made in 1900. One of them, the Day; but it was not so far wrong. Two of the most fundamental scientific was, celebrated the beginning of the twentieth century on that New Year's January 1, 1900. The "civilized" world, less numerate than it thought it The last year of the nineteenth century began on

Father Gregor, born Johann Mendel, was a peasant boy from Moravia, the same Habsburg backwater as Freud and Husserl. His brains had earned him a chance at a university degree, but in 1843, instead of completing physics, he had become a monk. Seven years later, after a year teaching science as a high school substitute, he went to the University of Vienna to try again. He had been a teacher for seven years when he failed his second teacher exam in Vienna in 1856. There is no way of knowing how that failure affected him; but we do know that almost the first thing he had done after coming home to Brno, a provincial town in what is now the Czech Republic, was to begin collecting carefully chosen examples of *Pisum sativum*—garden peas—to plant in a special section of his monastery garden. For seven years thereafter he had controlled their pollination, cultivated and cross-fertilized six generations of their offspring, carefully

cluding Jews. Ternon, "Il s'agit bien d'un génocide," L'Histoire 187 (April 1995), 42-43.

- dence, ed. J. Masson (Cambridge: Harvard University Press, 1985), 338. 1. Freud to Wilhelm Fliess, 4 January 1899, in Freud and Fliess, Correspon-
- with volume and page numbers], ed. J. Strachey (London: Hogarth, 1953-1974), Edition of the Complete Psychological Works of Sigmund Freud [hereafter StdEd, Psychiatrie und Neurologie 6, no. 3 (September 1899), 215-30; in The Standard Freud, "Über Deckererinnerungen" (Screen memories), Monatschrift für
- 229, 230, 239, 337, 424-25. 3. Freud, The Interpretation of Dreams, in StdEd, 4:136-37, 192-93, 216,

4. Ibid., 4:249-50.

Ibid., 4:97, 152, 193, 196-98, 275, 398n; 5:440, 447-48, 475

Freud, New Introductory Lectures (1932), in StdEd, 22:22.

7. Sigmund Freud to Wilhelm Fliess, 1 February 1900, in Freud and Fliess,

E. and W. Robson-Scott (New York: Harcourt, Brace and World, 1970), 23. Correspondence, 398. The Letters of Sigmund Freud and Arnold Zweig, ed. Ernst Freud, trans

9. Freud, The Interpretation of Dreams, in StdEd, 5:481.

10. Ibid., 4:212.

of the nineteenth century and his work as a histologist and neuroanatomist is Frank J. Sulloway, Freud, The Biologist of Mind (New York: Harper Paperback, 11. The indispensable work on Freud's training in the materialist neuroscience

12. Freud, The Interpretation of Dreams, in StdEd, 5:422

Ibid., 4:206.

Ibid., 5:450.

15. Forel, in Clark University 1889-1899 Decennial Celebration (Worcester,

trine of arrested emotions, which, unfortunately, was developed into a one-sided Mass.: Clark University, 1899), 412-13. Forel called Breuer and Freud's a "doc-

16. Ramon y Cajal, in Clark University 1889-1899 Decennial Celebration.

Forel, ibid., 410.

Freud, The Interpretation of Dreams, in StdEd, 4:111, 115, 117.

Papers: Sigmund Freud, ed. R. Byck (New York: Meridian, 1974). Ibid., 4:206. The cocaine episode is documented conveniently in Cocaine

Freud, The Interpretation of Dreams, in StdEd, 4:111.

21. Ibid., 4:170.

Ibid., 4:195.

Ibid., 4:195, 5:469.

Ibid., 5:437

Ibid.

Ibid., 5:527, 531. "Act as though, for instance, you were a traveller sitting

next to the window of a railway carriage and describing to someone inside the carriage the changing views which you see outside." Freud, "On Beginning the Treatment," in *StdEd*, 12:135.

- 27. Report of Josef Breuer's discussion on 4 November 1895 of Sigmund Freud's papers, "Über Hysterie" (14, 21, 28 October), Wiener Medizinische presse 36 (1895), 1717.
- 28. Freud, The Interpretation of Dreams, in StdEd, 5:483

29. Ibid., 5:480.

30. Ibid., 5:525.

31. Ibid., 4:318.

- Fliess, Correspondence, ed. J. Masson (Cambridge: Harvard University Press, the crucial turn in Freud's thinking. See his edition of Sigmund Freud and Wilhelm 32. Jeffrey M. Masson has been first and foremost in advancing this view of
- Freud, The Interpretation of Dreams, in StdEd, 4:260, 262, 263
- 34. Freud to Fliess, 6 August 1899, in Freud and Fliess, Correspondence, ed.
- 35. Freud, Analysis, Terminable and Interminable, in StdEd, 23:245
- 36. Freud, The Interpretation of Dreams, in StdEd, 5:453.
- cancel an exhibit on Freud. For a current snapshot of the Freudian thicket see Frederick C. Crews, The Memory Wars: Freud's Legacy in Dispute (New York: New York Review, 1995). Freud's legacy recently (December 1995) forced the U.S. Library of Congress to An almost Freudian uncertainty about the possibility of agreement on

- Modersohn-Becker, Letters and Journals (Evanston, III.: Northwestern University 1. Paula Becker to Otto Modersohn, 30 December 1899, in Paula
- Paula Becker to her parents, 1 January 1900, ibid., 151
- Paula Becker, Journal, ibid., 152.
- her parents, 13 April 1900, ibid., 179. 4. Paula Becker to her sister Milly Becker, 29 February 1900, ibid., 167; to
- Colarossi, described in letters to Milly Becker and to Otto and Helen Modersohn, 5. Though Matisse would not have been from Becker's classes at the Académie
- Clara Rilke-Westhoff, "A Recollection," ibid., 173.
- ed. and trans. Michael Robinson (Chicago: University of Chicago Press, 1992), 7. Strindberg to Claes Looström, 15 October 1883, in Strindberg's Letters,
- 8. Eugen Weber, France, Fin-de-Siècle (Cambridge: Harvard University
- lournals, 186. 9. Paula Becker to Otto and Helen Modersohn, May 1900, in Letters and
- 10. Paula Becker to her parents, 4 January 1900, ibid., 154.
- versity of Texas Press, 1986), 82-83. 11. Shari Benstock, Women of the Left Bank: Paris, 1900-1940 (Austin: Uni-

els, Mont Saint Michel, The Education (New York: Library of America, 1983), Henry Adams, The Education of Henry Adams (1907), in Adams, Nov-

13. Allan Massie, Colette (New York: Penguin, 1986), 43.

tive at the Bernheim jeune gallery and introduce him to Matisse. 14. In March 1901, Derain would take Vlaminck to the van Gogh retrospec-

15. Paula Becker, Journal, Worpswede, 2, 3, 5, and 26 July 1900, in Letters

16. Paula Becker, Journal, undated, ibid., 152

velles de la mécanique céleste, 1892-1899); ed. and trans. Daniel L. Goroff (Woodbury, N.Y.: American Institute of Physics, 1991). 17. Henri Poincaré, New Methods of Celestial Mechanics (Les méthodes nou-

in Science and Hypothesis (New York: Dover, 1952). trans. W. J. G., "Hypotheses in Physics" and "The Theories of Modern Physics, mathématique," reprinted in La Science et l'hypothèse (Paris: Flammarion, 1902); 18. Poincaré, "Sur les rapports de la Physique expérimentale et de la Physique

onnement des corps noirs," ibid., 41-99. Congrès Internationale de Physique (1900), 2:23-40; Otto Lummer, "Le ray-19. Wilhelm Wien, "Les lois théoriques du rayonnement," in Rapports du

20. Bertrand Russell, Autobiography (London: Unwin paperback, 1978).

American Mathematical Society, 1974). lems, Proceedings of Symposia in Pure Mathematics, vol. 28 (Providence, R.I.: 21. Felix Browder, Mathematical Developments Arising from Hilbert Prob-

Remy de Gourmont, "La Morale de l'amour," in La Culture des idées

(Paris: 10/18, 1983).

lyn McCully, ed., A Picasso Anthology (Princeton: Princeton University Press 23. Carles Casagemas to Ramon Reventós, 25 October 1900, trans. in Mari

ings of Jules Laforgue, ed. and trans. William Jay Smith (New York: Grove Press 24. Laforgue, "L'Hiver qui vient" (The coming of winter), in Selected Writ-

25. Paula Becker to Otto and Helen Modersohn, May 1900, in Letters and

in Paris, Rilke wrote for her his great "Requiem for a Friend": 26. Paula Modersohn-Becker, Journal, 2 April 1902, ibid., 275. A year later

Is like a relapse in a prolonged illness. And Time goes out, and Time fills up, and Time then you were in Time, and Time is long.

ist wie ein Rückfall einer langen Krankheit nun warst du in der Zeit, und Zeit ist lang. Und Zeit geht hin, und Zeit nimmt zu, und Zeit

sity Press, 1993), 77. Corcos and Monaghan translate Mendel's word Spaltung : ments on Plant Hybrids: A Guided Study (New Brunswick, N.J.: Rutgers Unive on plant hybrids), Verhandlungen der naturforschenden Vereines in Brünn 9, and Alain F. Corcos and Floyd V. Monaghan, eds., Gregor Mendel's Expen Origin of Genetics: A Mendel Sourcebook (San Francisco: W. H. Freeman, 1966 (1865); trans. E. R. Sherwood, in Curt Stern and Eva R. Sherwood, eds., TI the parental strains." Mendel, "Versuche über Pflanzenhybriden" (Experimen "segregation" on p. 91. Cf. Stern and Sherwood, eds., Origin of Genetics, 15. 1. "[A]s a rule hybrids do not represent the form exactly intermediate between

2. Mendel, "Versuche . . . ," in Stern and Sherwood, eds., Origin of Genetic

11, and Corcos and Monaghan, eds., Mendel's Experiments, 82. 3. Mendel, "Versuche . . . ," in Stern and Sherwood, eds., Origin of Gene

ered?" Annals of Science 1 [1936], 115-37) tried to show that Mendel's result (Franz Weiling, "What about R. A. Fisher's Statement of the 'Too Good' Data c were "too good" and might have been fudged, but in fact they weren't that goo The italics are Mendel's own. Ronald Fisher ("Has Mendel's Work Been Rediscov J. G. Mendel's Paper?" Journal of Heredity 77 [1986], 281-83). 4. Ibid., 22; and Corcos and Monaghan, eds., Mendel's Experiments, 113

5. Mendel, "Versuche . . . ," in Stern and Sherwood, eds., Origin of Genet

and two more ended up in the libraries of Martius Wilhelm Beijerinck and cago Press, 1985), 102. One offprint was sent to Anton Kerner von Marilaun Theodor Boveri. 6. Robert C. Olby, Origins of Mendelism, 2d ed. (Chicago: University of Chi

hawkweeds), 2 vols. (Munich, 1885-89). 7. Karl Nägeli and A. Peter, Die Hieracien Mittel-Europas (Central European

8. Mendel's letters to Nägeli are available in Stern and Sherwood, eds., Origin

(A mechano-physiological theory of inheritance) (Leipzig: Oldenburg, 1884). 9. Karl Nägeli, Mechanisch-physiologische Theorie der Abstanmungslehre 10. E. Posner and J. Skutil, "The Great Neglect: The Fate of Mendel's Paper

win read Hoffmann but seems to have missed the reference to Mendel. Hybrids: Observations on the Petersburg Flora" (master's thesis, St. Petersburg, fanerogama vaxterna" (Ph.D. thesis, Uppsala, 1872); Schmalhausen, "On Plant between 1865 and 1900," in Olby, Origins of Mendelism, 216-19. 1874), cited in Olby, Origins of Mendelism, 222-26, where it is shown that Dar Species und Varietät . . . , 1869; Albert Blomberg, "Om hybridbildning hos de 11. Hermann Hoffmann, Untersuchungen zur Bestimmung des Werthes von

Origins of Mendelism, 228-29. book was available in the year before its printed date of publication. See Olby, Sherwood, eds., Origin of Genetics, 103. Like Freud's Traumdeutung, Focke's der Gewächse (Giessen, 1881), 108; trans. Stern and Sherwood, in Stern and 12. Wilhelm Olbers Focke, Die Pflanzen-Mischlinge: ein Beitrag zur Biologie

eds., Origin of Genetics, 135. 13. Carl Correns to H. F. Roberts, 23 January 1925, in Stern and Sherwood,