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科学探索丛书

SCIENTISTS IN THE FIELD

实地科学探索

JOHAN REINHARD

# Discovering Ancient Civilizations

探索古代文明

REBECCA L. JOHNSON





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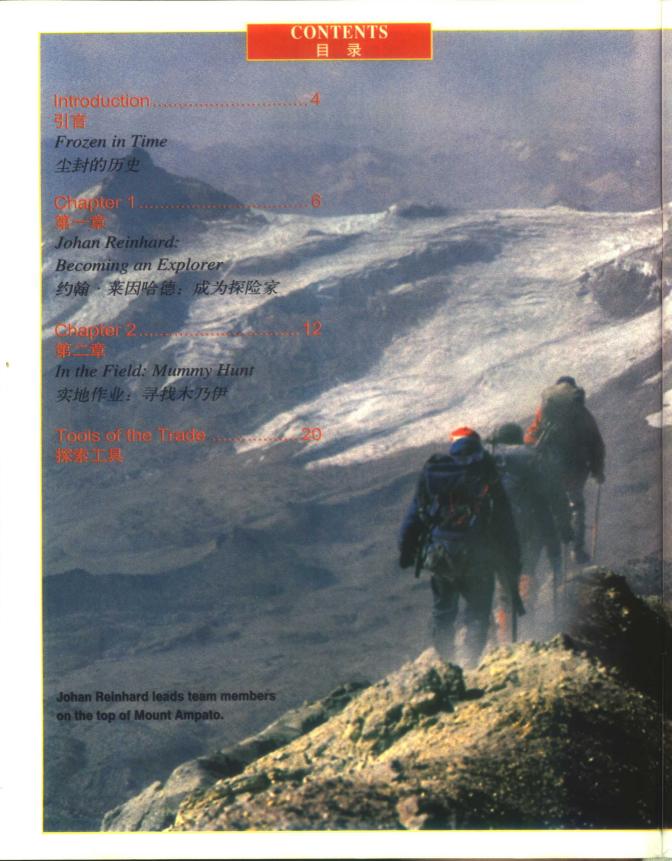
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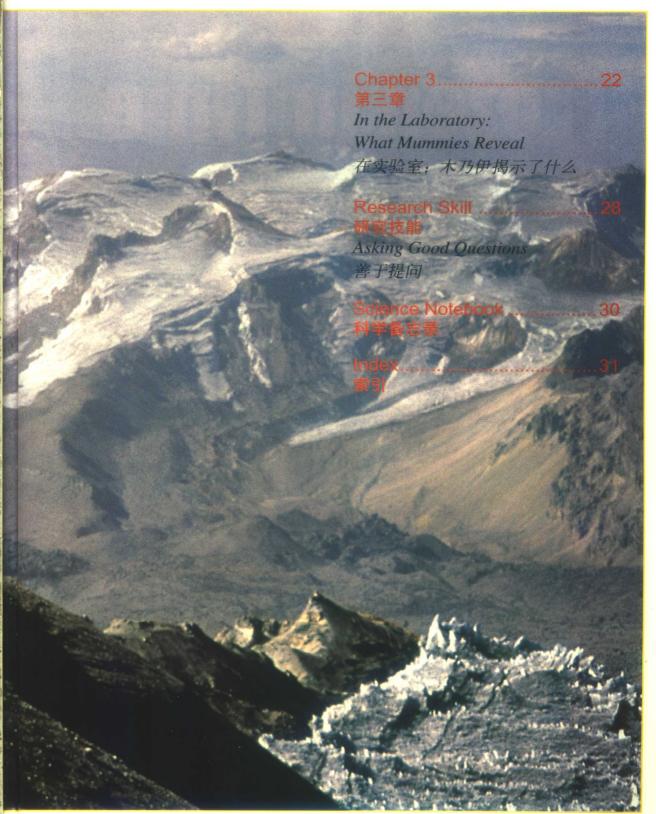
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## Frozen in Time 尘封的历史

Miguel Zárate looks at the Ice Maiden¹ for the first time.

(注释见第5页)

An icy wind whipped<sup>2</sup> across the mountaintop. Johan Reinhard and his climbing partner, Miguel Zárate, scrambled<sup>3</sup> down the steep<sup>4</sup> slope<sup>5</sup>. Hearts pounding<sup>6</sup>, they approached<sup>7</sup> the strange cloth bundle<sup>8</sup>. With his ice axe<sup>9</sup>, Miguel gently freed it from the frozen ground. They turned the bundle over. Both men gasped<sup>10</sup>. They were looking into the face of a young girl.



Johan Reinhard, explore

In 1995 high in the Andes<sup>11</sup> in South America, Johan (YO-han) Reinhard discovered a frozen mummy—the body of an Inca<sup>12</sup> girl. The Ice Maiden, as she came to be called, was about 14 years old when she died. Her small body was wrapped<sup>13</sup> in fine clothes. Nearby were tiny<sup>14</sup> statues<sup>15</sup> made of gold, silver, and rare<sup>16</sup> seashells<sup>17</sup>. Who was this girl? Why was she here?

The Inca were an ancient people who lived in the Andes mountain range<sup>18</sup>. The Inca believed that the tallest peaks<sup>19</sup> were home to powerful gods. Children were an important part of the rituals<sup>20</sup>

NORTH

PACIFIC

ATLANTIC

SOUTH

PACIFIC

used to honor these mountain gods, as were statues and other artifacts21. In return, the gods

were to send good weather and keep the people safe.

About 500 years ago, the Ice Maiden died on top of Peru<sup>22</sup>'s Mount Ampato<sup>23</sup>. Frozen in time, she is a link<sup>24</sup> to the past. This is a book about Johan Reinhard, a scientist who looks in high places for clues<sup>25</sup> about ancient people and how they lived. Get set for more discoveries as you follow Johan to the top of the world.

1.	maiden	n.	少女
2.	whip	ν.	抽打
3.	scramble	ν.	爬
4.	steep	ad	陡峭的
5.	slope	n.	斜坡
6.	pound	ν.	(心脏)剧跳
7.	approach	ν.	靠近
8.	bundle	72.	包裹;包袱
9.	axe	n.	斧
10.	gasp	ν.	倒抽气
11.	Andes		安第斯山脉
12.	Inca	n.	印加人(南美
			印第安人的一个部落)

13. wrap	ν.	包上;包裹
14. tiny	adj.	极小的
15. statue	71.	雕像
16. rare	adj.	罕见的;珍奇的
17. seashell	n.	海贝壳
18. mountain range		山脉
19. peak	12.	山峰
20. ritual	n.	(宗教)仪式
21. artifact	n.	人工制品
22. Peru		秘鲁
23. Mount Ampato		安帕托山
24. link	12.	纽带
25. clue	n.	线索

Amazon Alve

Extent of empire 1532 A.D.

## Johan Reinhard: **Becoming an Explorer**

约翰·莱因哈德。成为探险家

Do you wonder how people in other countries live today or how they lived long ago? Do you wish you could travel to faraway places? If so, then you and Johan Reinhard have a lot in common.

It's a long way from Peru to the tiny town of New Lenox, Illinois<sup>1</sup>. That's where Johan grew up. As a boy, he loved sports and being outdoors. In the summer he went hunting<sup>2</sup> and camping. He caught fish in the creek<sup>3</sup> that flowed through his town.

On rainy days Johan could be found at home in the basement. There he mixed liquids<sup>4</sup> and powders<sup>5</sup> in his chemistry set. He also built rockets<sup>6</sup>. None of them went very high. In fact, many never left the launch pad<sup>7</sup>.

1.	Illinois		伊利诺伊州
2.	hunting	n.	打猎
3.	creek	n.	小溪: 小河
4.	liquid	n	液体
5.	powder	n.	粉末
6.	rocket	n.	火箭
7.	launch pad		发射台

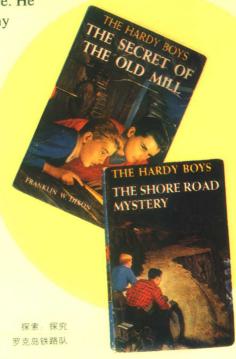
Johan Reinhard as a boy

Johan's father worked as a detective<sup>1</sup> for the post office. He caught mail robbers<sup>2</sup>. Maybe that was one reason why Johan loved mysteries<sup>3</sup> and detective stories. His favorite<sup>4</sup> books were from *The Hardy Boys* series<sup>5</sup>, stories about two brothers who solved crimes<sup>6</sup>. Johan read all kinds of other books too. The more he read, the more he wanted to explore<sup>7</sup> the world.

At age 16 Johan left home and became the youngest worker on the Rock Island Railroad's line gang<sup>8</sup>. They dug holes and put up telegraph poles<sup>9</sup> along the tracks<sup>10</sup>. It was hard, dangerous work. Johan traveled with a group of men who were mostly from the South. He liked being around people who were different from those back home. He also discovered he could make his own way in the world.

1.	detective	11.	侦探
2.	robber	n.	强盗。盗贼
3.	mystery	n.	神秘的事物
4.	favorite	adj.	特别喜爱的
5.	series	n.	丛书
6	solve a crime		破案

7.	explore	V.	探索:探究
8.	Rock Island		罗克岛铁路队
	Railroad's line g	ang	
9.	telegraph pole		电话线杆
10	. track	77.	轨道



▲ Hardy Boys covers from the 1950s



## From the Amazon<sup>1</sup> to Asia

As soon as he graduated<sup>2</sup> from high school, Johan headed for<sup>3</sup> South America—alone. He used the money he'd made on the line gang to explore Brazil<sup>4</sup> and parts of the Amazon rain forest. Traveling along the Amazon River, he was fascinated<sup>5</sup> by the people he met and the places he saw.

During his first trip to South America, Johan knew he wanted to be an anthropologist<sup>6</sup>. That's a scientist who studies different groups of people—how they live and what they believe. Anthropologists study modern groups of people or those who lived long ago.

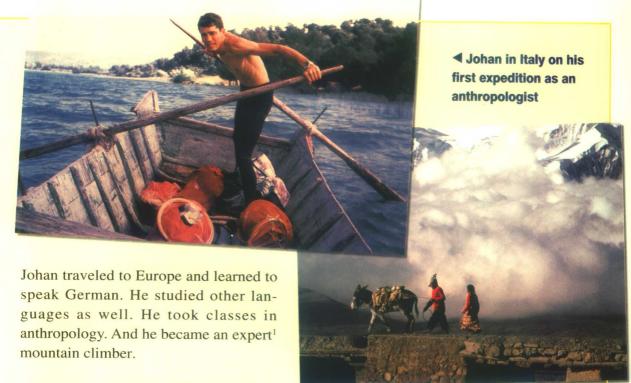
Johan returned to the United States with a plan. He would attend college<sup>7</sup> and when he wasn't studying, he would learn how to scuba dive<sup>8</sup>, sky dive<sup>9</sup>, and explore caves<sup>10</sup>. He thought these skills would help him get to places where no anthropologist had gone before.

▼ Johan and team entering the Amazon rain forest

1.	Amazon		亚马孙河	6.
2.	graduate	ν.	毕业	7
3.	head for		朝行进	8
4.	Brazil		巴西	9
5.	fascinate	ν.	迷住: 使神魂颠倒	1

6.	anthropologist	n.	人类学家
7.	attend college		上大学
8.	scuba dive		戴水肺潜水
9.	sky dive		延缓张伞跳伞
10.	cave	n.	洞;穴





When he was just 21 years old, Johan went to Italy on his first expedition<sup>2</sup> as an

anthropologist. Not on land, but underwater! Making use of his scuba diving skills, he looked for ancient Roman artifacts. It was exciting work. But much was already known about the Romans. Johan wanted to study a group of people who were not known. He headed to the country of Nepal<sup>3</sup> in Asia. There he discovered a tribe<sup>4</sup> of mountain nomads<sup>5</sup> who moved from place to place, hunting animals and gathering<sup>6</sup> wild plants for their food. They lived as people did thousands of years ago.

Johan found the tribe fascinating. However, after a while the members of the tribe ordered him to stop following them around. Their hostile<sup>7</sup> attitude<sup>8</sup> made Johan decide to wrap up<sup>9</sup> his research and leave.

▲ South American
villagers near one of
Bolivia¹⁰'s highest
peaks

1.	expert	adj.	知识丰富的: 内行的
2.	expedition	n.	远征: 探险
3.	Nepal		尼泊尔
4.	tribe	11.	部落
5.	nomad	n.	游牧部落的人

6.	gather	ν.	采集
7.	hostile	adj.	怀敌意的
8.	attitude	n.	态度
9.	wrap up		结束:完成
10.	Bolivia		玻利维亚

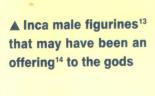
## **Mountain Man**

Johan didn't leave Nepal. There were other groups of people to study. And there were impressive mountains to climb. Johan went on expeditions to many peaks in the Himalayas<sup>2</sup>, including<sup>3</sup> Qomolangma Feng<sup>4</sup>—the world's highest peak. He also discovered that in many places, the local people believed that gods lived on some of the mountaintops.

After more than five years in Nepal, Johan decided to come back to the United States—by way of South America. In the Andes he heard stories about Inca ruins<sup>5</sup> on high mountain peaks. He began to wonder if the Inca had believed in mountain gods too.

For the next few years, Johan traveled through the Andes. He talked to the mountain people. He listened to legends<sup>6</sup> and stories about their Inca ancestors<sup>7</sup>. He discovered that the ancient Inca did believe in mountain gods and honored<sup>8</sup> them with various<sup>9</sup> rituals. So Johan began to search for evidence<sup>10</sup> of those rituals. He looked on the highest peaks. Eventually<sup>11</sup>, on Mount Ampato, he found the Ice Maiden.

But that's not the end of the story. If you want to try *your* hand<sup>12</sup> at anthropology, then join Johan on one of his most recent expeditions.



1.	impressive	adj.	令人难	忘的
2.	Himalayas		喜马拉雅	山脉
3.	include	ν.		包括
4.	Qomolangma	Feng	珠穆朗	玛峰
5.	ruins	71.	废墟:	遗迹
6.	legend	71.		传说
7.	ancestor	11.		祖先
8	honor	ν.	对表示	尊敬

			IV //
9.	various	adj.	各种各样的
10.	evidence	n.	证据: 根据
11.	eventually	adv.	最终
12.	try one's hand		试做: 试身手
13.	figurine	n.	(陶土、金属等的)
			小雕像
14.	offering	n.	供物:祭品
15.	ceremony	n.	典礼: 仪式



► Modern villagers act out the ceremonies¹⁵ of their Inca ancestors.



## In the Field: Murniny Hunt

实地作业: 寻找木乃伊

Ever wanted to explore a mountaintop? Well, imagine<sup>1</sup> this! You're part of Reinhard's expedition to dig out Inca ruins on Mount Llullaillaco<sup>2</sup> (Yu-yai-YA-ko) in Argentina<sup>3</sup>. But you're not just hanging around<sup>4</sup>, enjoying the view. You're very busy.

As a member of Reinhard's team, your job is to dig a hole in frozen, stony ground. You lean on<sup>5</sup> your shovel<sup>6</sup>, gasping for breath. The air is very thin on a mountaintop. It's hard to breathe. Just a few minutes of shoveling leaves you really tired. The high altitude<sup>7</sup> isn't just tiring. It also can be dangerous. Anyone who starts to show signs of altitude sickness<sup>8</sup> must get down the mountain. Delaying<sup>9</sup> can be

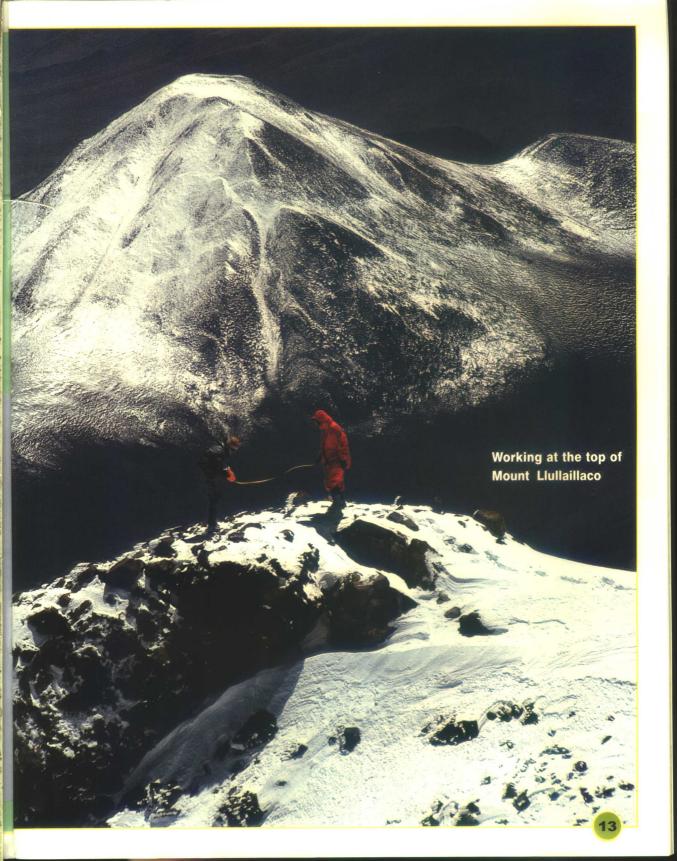
deadly10.

A cold wind tugs<sup>11</sup> at your hat and numbs<sup>12</sup> your face. The windchill<sup>13</sup> is -37°C (-35°F). You glance<sup>14</sup> around. Johan is looking closely at samples<sup>15</sup> of soil. Some team members are shoveling. Others are using picks<sup>16</sup> to break into the hard ground. They all look as weary<sup>17</sup> as you feel.

▲ Work gloves and ice axe

1.	imagine	ν.	想像: 设想
2.	Mount Llullailla	co	尤耶亚科山
3.	Argentina		阿根廷
4.	hang around		闲荡
5.	lean on		靠在: 倚在
6.	shovel	n.	铲,铁锹
7.	altitude	n.	高度;海拔
8.	altitude sicknes	SS	高空病
9.	delay	ν.	耽搁
10.	deadly	adj.	致命的
11.	tug	ν.	用力拖(或拉)

12. numb	ν. 使麻:	木:使失去知觉
13. windchill	n.	风寒指数
14. glance	ν.	扫视
15. sample	n.	样品
16. pick	72.	镐
17 weary	adi	疲倦的



## Path to the Peak

Did you ever Wonder ...

... what causes altitude sickness?

Climbers who don't take time to adjust<sup>18</sup> to lower levels of oxygen<sup>19</sup> in the air above about 2,300 meters (7,546 feet) can get altitude sickness. The symptoms<sup>20</sup> include a headache, dizziness<sup>21</sup>, and a queasy stomach<sup>22</sup>.

The last two weeks have been tough<sup>1</sup>. Getting to the top of Llullaillaco was a challenge<sup>2</sup>. First, it took five days by truck just to reach the base of the mountain. That's where Johan set up Base Camp. Then you spent five more days moving supplies<sup>3</sup> and gear<sup>4</sup> from Base Camp to Camp One, at about 5,791 meters (19,000 feet).

Traveling up the mountain, you focused on<sup>5</sup> the task ahead. The team must make sure that any artifacts remaining on this mountain are located<sup>6</sup> and preserved<sup>7</sup> before they are stolen by others or destroyed<sup>8</sup>. Between Base Camp and Camp One, several team members found a place where a group of ancient Inca people must have stopped for a while on their way up the mountain. Broken walls from their stone huts<sup>9</sup> and bits of pottery<sup>10</sup> remain—signs<sup>11</sup> that the team is on the right trail<sup>12</sup>.

Finally you made it to the summit<sup>13</sup>, the very top of the mountain. The team had reached its destination<sup>14</sup> of 6,739 meters (22,110 feet). And then a storm hit! You were stranded<sup>15</sup> in your tent. Hurricane-speed<sup>16</sup> winds screamed<sup>17</sup> through camp. A snowstorm turned everything white.

	1.	tough	adj.	艰苦的
	2.	challenge	n.	挑战
	3.	supply	11.	供给:供应品
	4.	gear	71.	用具: 装备
	5.	focus on		集中
	6.	locate	ν.	找到的位置
	7.	preserve	ν.	保护
	8.	destroy	ν.	破坏: 毁坏
	9.	hut	17.	(简陋的)小屋
	10.	pottery	n.	陶器
	11.	sign	n.	迹象
	12.	trail	71.	足迹:路径
	13.	summit	72.	顶点
	14.	destination	<i>n</i> .	目的地
	15.	strand	ν.	使陷于困境
	16.	hurricane-speed	adj.	速度如飓风的
	17.	scream	ν.	尖叫

► A truck with a dead battery gets pushed on the way to Base Camp.

18.	adjust	ν.		适应
19.	oxygen	n.		氧气
20.	symptom	n.		症状
21.	dizziness	11.	头晕:	头昏
22.	queasy stomach		胃中不适	欲呕
23.	burial site		埋	葬地



